

DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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

Risks listed here are not exhaustive. Refer to GBFAS-FRH-ZZ-RA-W-100001

CONSTRUCTION

No significant hazards which should not be reasonably foreseen by a competent contractor



MAINTENANCE AND INSPECTION

No significant hazards which should not be reasonably foreseen by a competent contractor



RESIDUAL DESIGN RISKS

No significant hazards which should not be reasonably foreseen by a competent contractor

For information relating to use, cleaning and maintenance refer to 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.

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- Notes:
- Refer to drawings GBFAS-FRH-ZZ-DR-W-102101 to 102104 for culvert plan and GBFAS-FRH-ZZ-DR-W-102106 for continuation and culvert cross sections.
 - This drawing has been generated from statutory record information only. No onsite detection has been carried out therefore the location of services shown within this drawing should be taken as approximate.
 - Refer to drawings GBFAS-FRH-ZZ-DR-W-100160 to 100163 for utility coordination requirements.

P01.2	20/03/24	SECOND ISSUE	KAB	RD	SJGS
P01.1	13/03/24	FIRST ISSUE	KAB	RD	SJGS
Rev	Date	Description	Drawn	Chkd	Appd

For Information

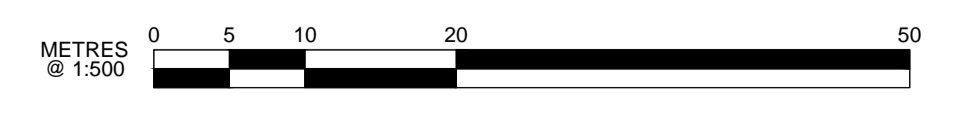
Project Title: Gruggies Burn Flood Alleviation Scheme

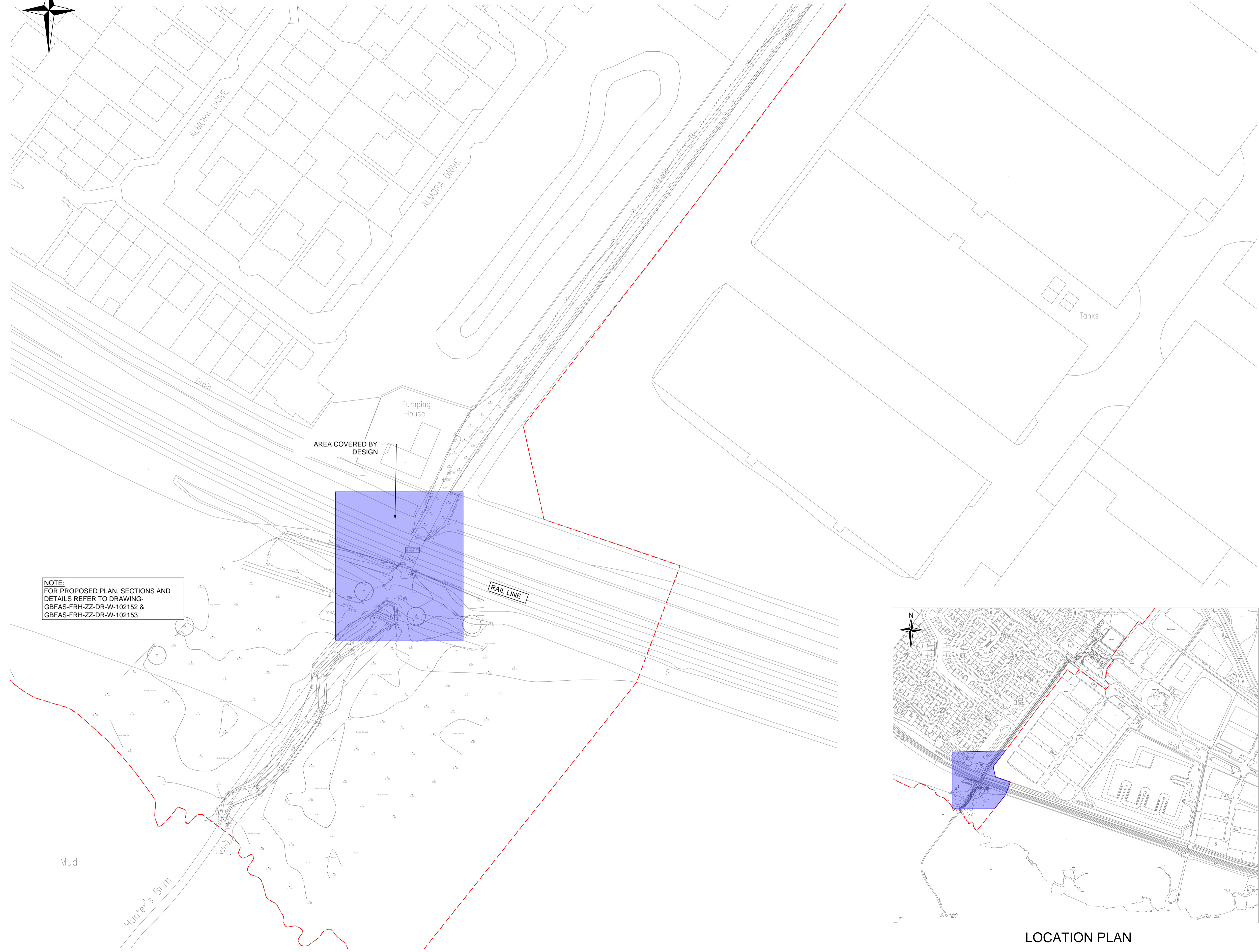
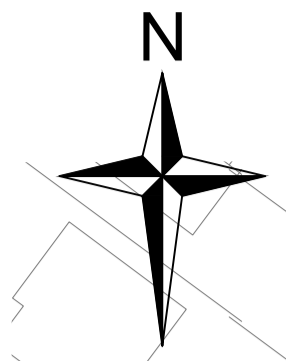
Drawing Title: Culvert Route Long Section Sheet 1 of 2

Drawn: KAB	Date: 21/02/24	Designed: RD/LG	Date: 21/02/24
Checked: SMC/A	Date: 20/03/24	Approved: SJGS	Date: 20/03/24

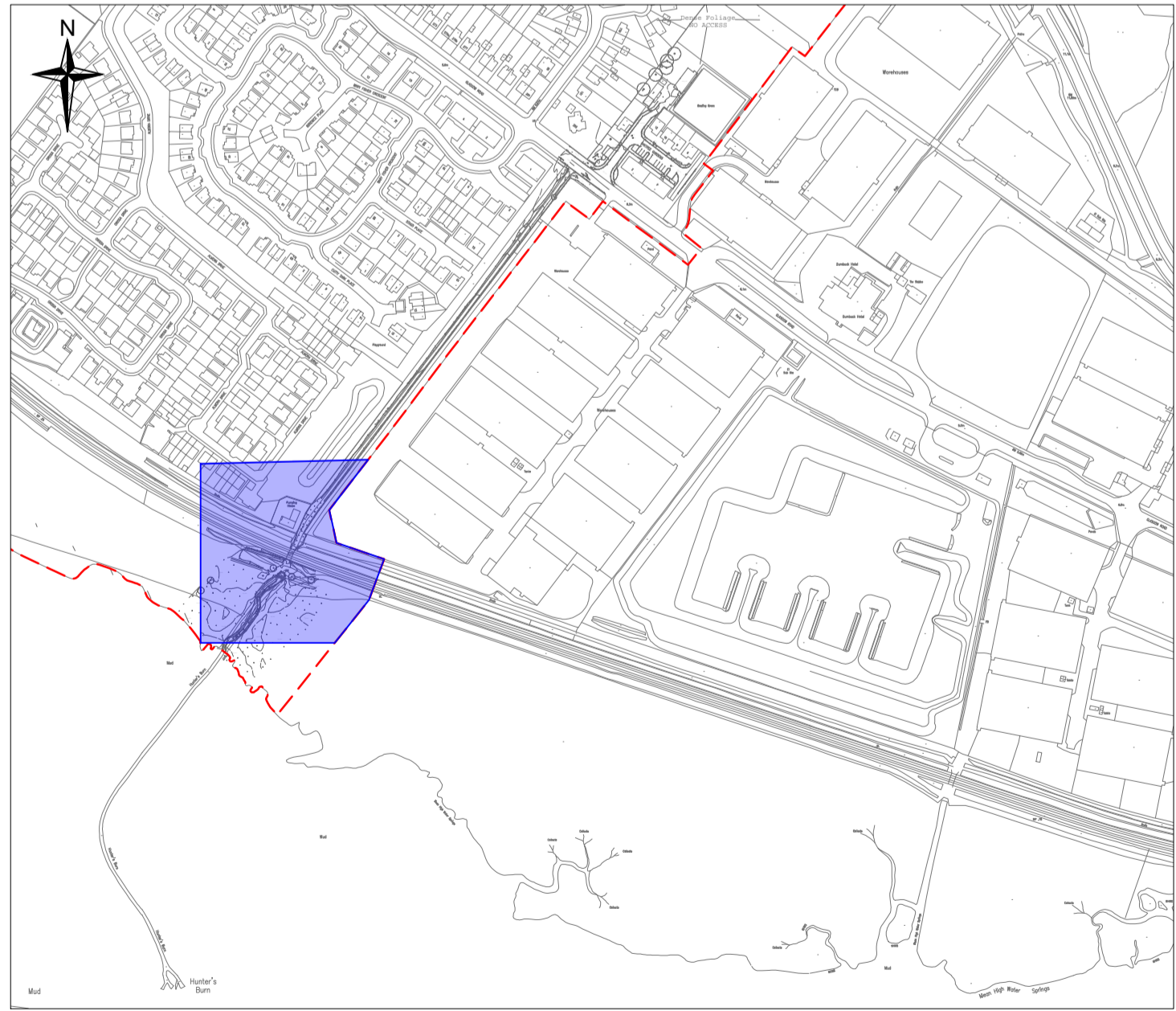
Size: A1 | Scale: 1:500 | Project Ref: 153386-PW-2105

Drawing Number: GBFAS-FRH-ZZ-DR-W-102105	Status: S2	Revision: P01.2
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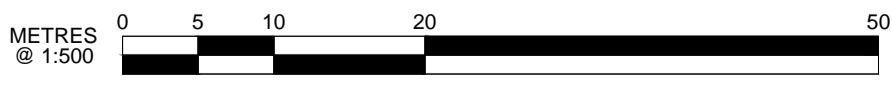
NOTE:
FOR PROPOSED PLAN, SECTIONS AND
DETAILS REFER TO DRAWING:
GBFAS-FRH-ZZ-DR-W-102152 &
GBFAS-FRH-ZZ-DR-W-102153



LOCATION PLAN

EXISTING PLAN / GENERAL ARRANGEMENT

SCALE 1:500



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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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

Risks listed here are not exhaustive. Refer to 153386/DAF/001 for full list of hazards associated with construction.

- CONSTRUCTION**
1. RESTRICTED SITE
 2. INTERFACE WITH THE PUBLIC
 3. NEAR TO HIGHWAYS
 4. NEAR TO RAILWAYS
 5. NEAR TO WATERWAYS
 6. OVERHEAD CABLES (OLE)



- MAINTENANCE AND INSPECTION**



RESIDUAL DESIGN RISKS

For information relating to use, cleaning and maintenance refer to the Health and Safety file.

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- Legend:**
- Area covered by design
 - Scheme Boundary

P01.2	20-03-24	SECOND ISSUE	SM	SRB	SJGS
P01.1	15-03-24	FIRST ISSUE	SM	SRB	SJGS
Rev	Date	Description	Drawn	Chkd	Appd

For Information


West Dunbartonshire COUNCIL


Balfour Beatty FAIRHURST


SCAPE SCOTLAND CIVIL ENGINEERING

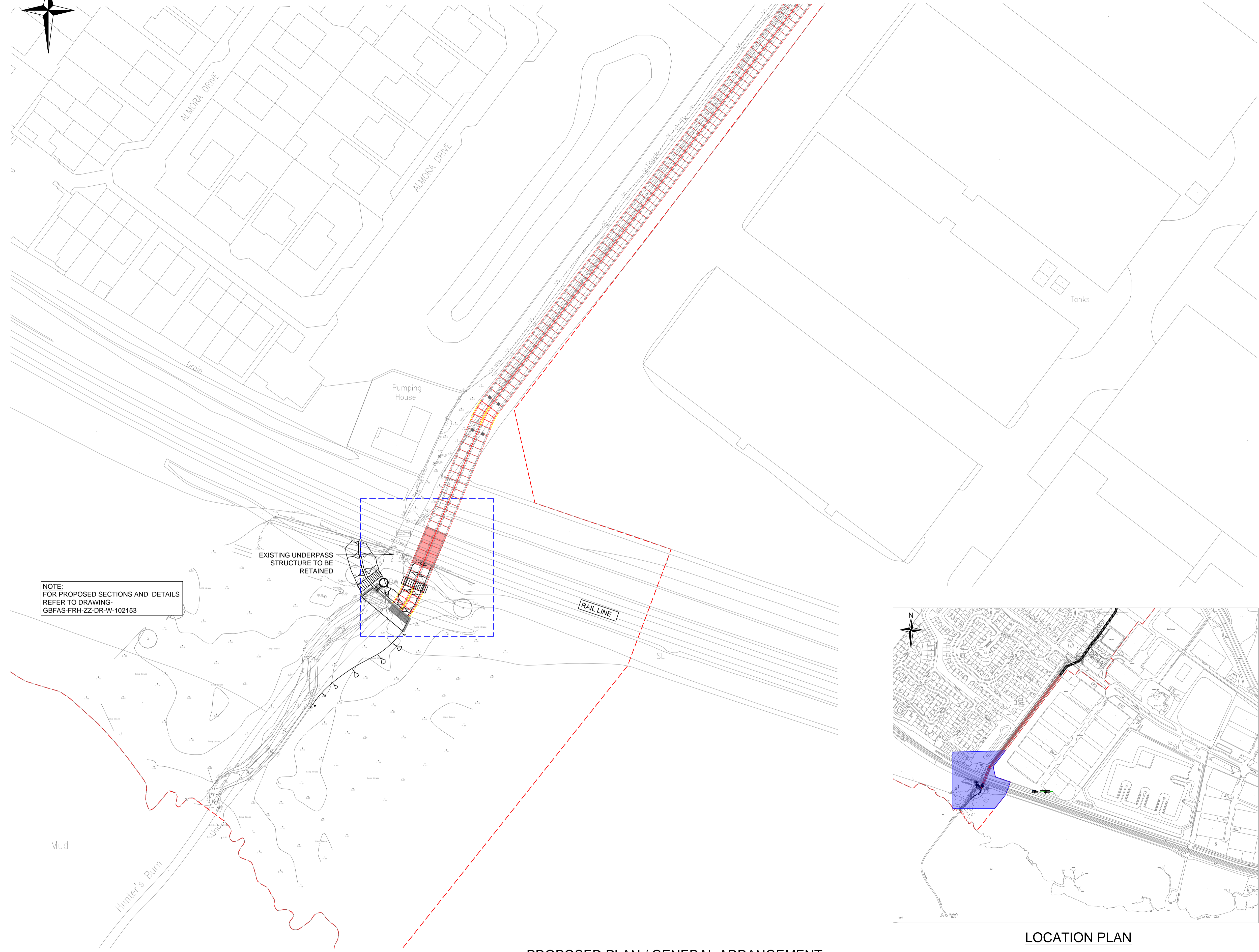
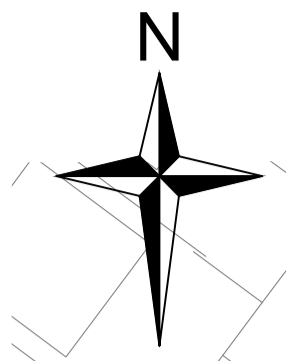
**Gruggies Burn
Flood Alleviation Scheme**

**Existing Plan / General Arrangement
Culvert and Headwall**

Drawn	Date	Designed	Date
SM	15-03-24	LD	15-03-24
Checked	Date	Approved	Date
SRB	15-03-24	SJGS	15-03-24

Size **A1** Scale **1:500** Fairhurst Ref **153386-PW-2151**

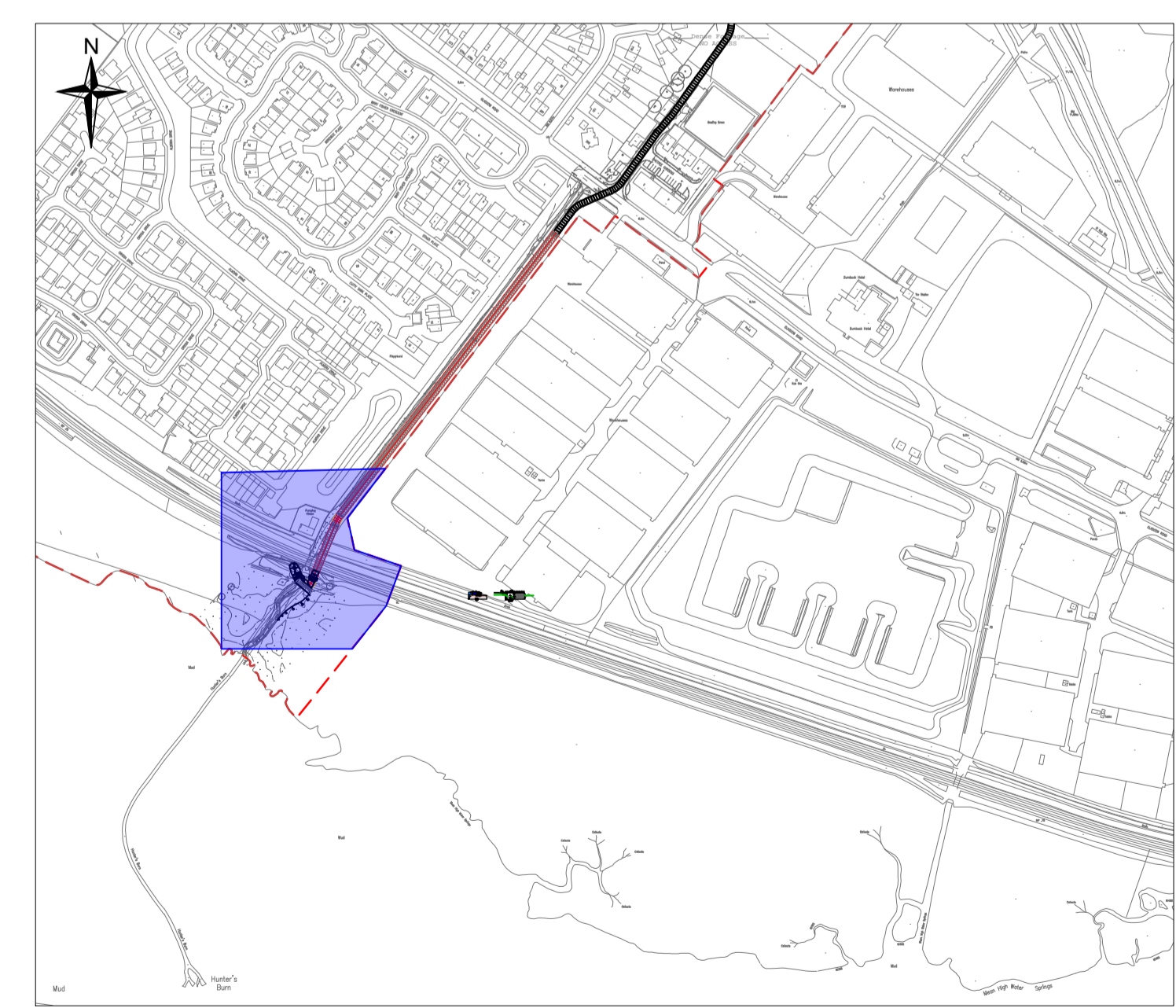
Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102151	S2	P01.2



NOTE:
FOR PROPOSED SECTIONS AND DETAILS
REFER TO DRAWING-
GBFAS-FRH-ZZ-DR-W-102153

EXISTING UNDERPASS
STRUCTURE TO BE
RETAINED

PROPOSED PLAN / GENERAL ARRANGEMENT
SCALE 1:500



LOCATION PLAN

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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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- CONSTRUCTION**
1. RESTRICTED SITE
 2. INTERFACE WITH THE PUBLIC
 3. NEAR TO HIGHWAYS
 4. NEAR TO RAILWAYS
 5. NEAR TO WATERWAYS
 6. OVERHEAD CABLES (OLE)



- MAINTENANCE AND INSPECTION**



RESIDUAL DESIGN RISKS

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Legend:

- Area covered by design
- Scheme Boundary
- Flood relief culvert within Network Rail boundary

P01.2	20-03-24	SECOND ISSUE	SM	SRB	SJGS
P01.1	15-03-24	FIRST ISSUE	SM	SRB	SJGS
Rev	Date	Description	Drawn	Chkd	Appd

For Information


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Balfour Beatty FAIRHURST


SCAPE SCOTLAND CIVIL ENGINEERING

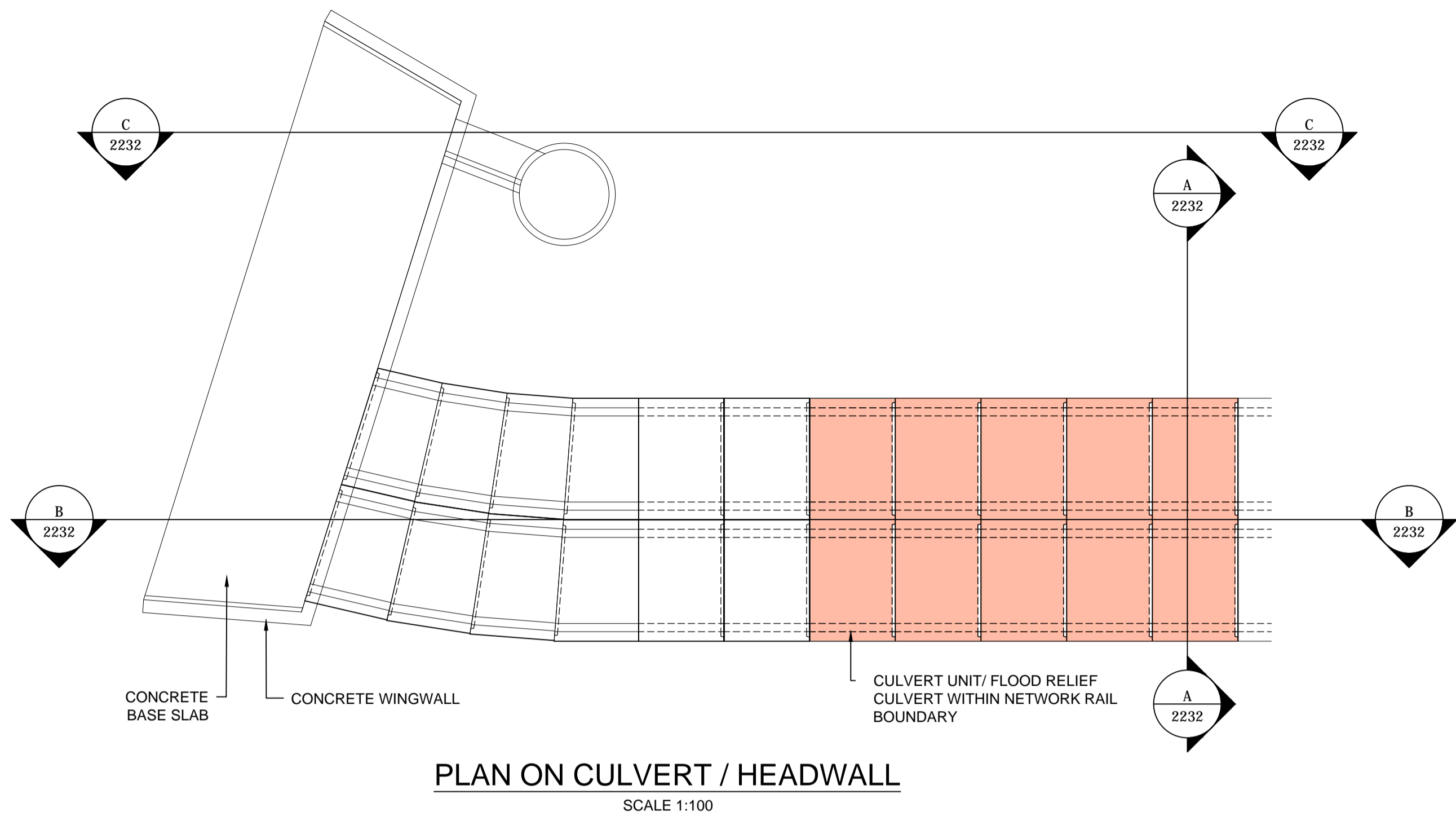
**Gruggies Burn
Flood Alleviation Scheme**

**Proposed Plan / General Arrangement
Culvert and Headwall**

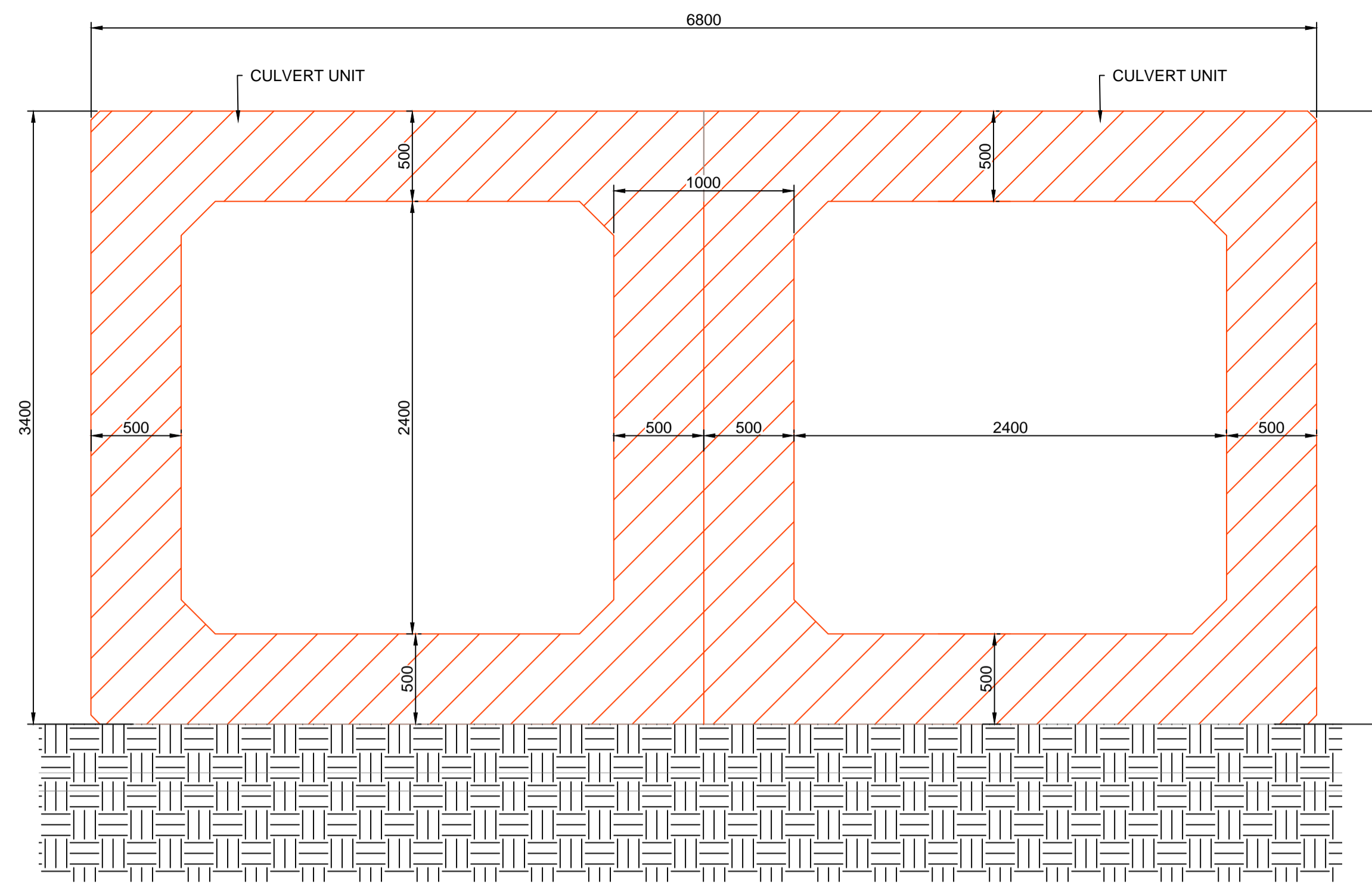
Drawn	Date	Designed	Date
SM	15-03-24	LD	15-03-24
Checked	Date	Approved	Date
SRB	15-03-24	SJGS	15-03-24

Size **A1** Scale **1:500** Fairhurst Ref **153386-PW-2152**

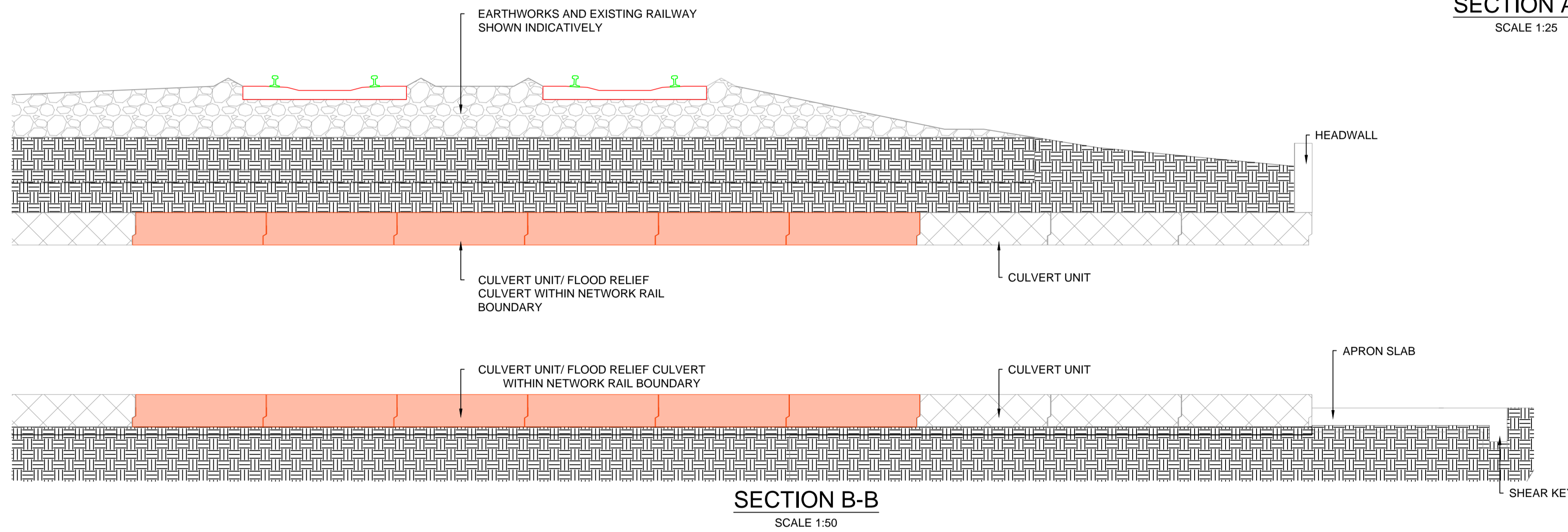
Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102152	S2	P01.2



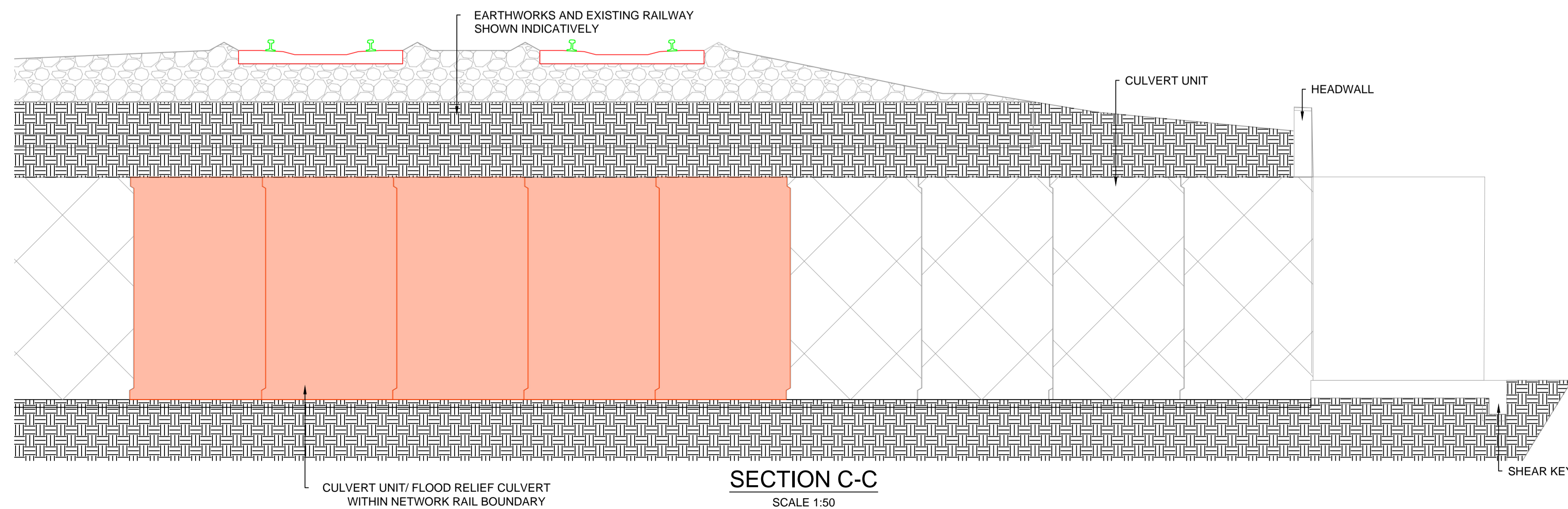
PLAN ON CULVERT / HEADWALL
SCALE 1:100



SECTION A-A
SCALE 1:25



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50



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CONSTRUCTION

1. RESTRICTED SITE
2. INTERFACE WITH THE PUBLIC
3. NEAR TO HIGHWAYS
4. NEAR TO RAILWAYS
5. NEAR TO WATERWAYS
6. OVERHEAD CABLES (OLE)

MAINTENANCE AND INSPECTION

RESIDUAL DESIGN RISKS

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Legend:

- Flood relief culvert within Network Rail boundary

P01.2	20-03-24	SECOND ISSUE	SM	SRB	SJGS
P01.1	15-03-24	FIRST ISSUE	SM	SRB	SJGS
Rev	Date	Description	Drawn	Chkd	Appd

For Information

West Dunbartonshire COUNCIL

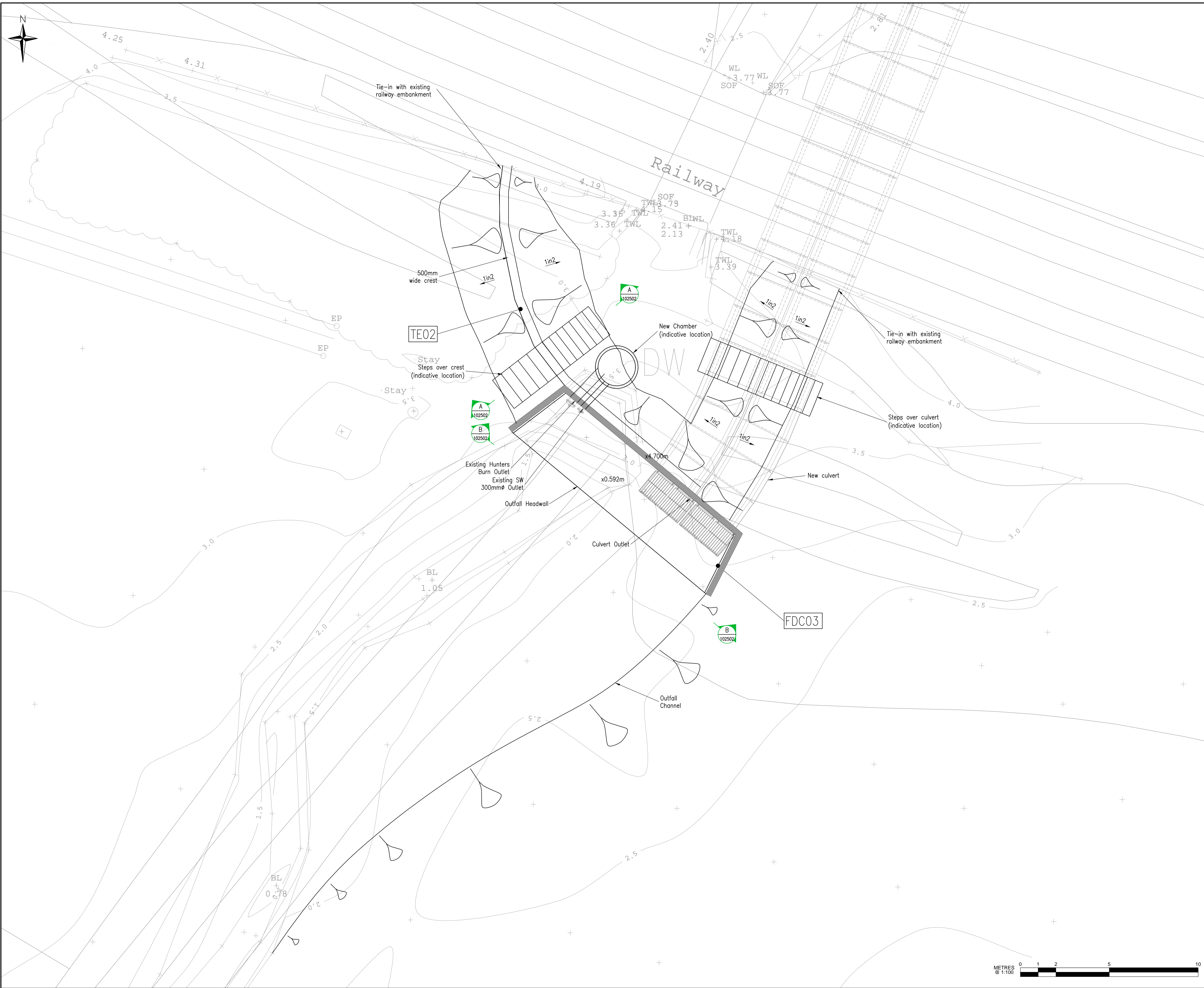
Balfour Beatty FAIRHURST

SCAPE SCOTLAND CIVIL ENGINEERING

Gruggies Burn Flood Alleviation Scheme

Culvert Sections and Details

Drawn	Date	Designed	Date
SM	15-03-24	LD	15-03-24
Checked	Date	Approved	Date
SRB	15-03-24	SJGS	15-03-24
Size	Scale	Fairhurst Ref	
A1	As Shown	153386-PW-2153	
Drawing Number	Status	Revision	
GBFAS-FRH-ZZ-ZZ-DR-W-102153	S2	P01.2	




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Notes:

- Refer to drawing GBFAS-FRH-ZZ-DR-W-102502 for section and elevation.

Legend:

-  Scheme Boundary

Rev	Date	Description	Drawn	Chkd	Appd
P01.1	20/03/24	FIRST ISSUE	KAB	LG	SJGS

For Information


West Dunbartonshire COUNCIL

Balfour Beatty FAIRHURST

SCAPE SCOTLAND CIVIL ENGINEERING

Project Title
Gruggies Burn Flood Alleviation Scheme

Drawing Title
Inlet Structure Plan

Drawn	Date	Designed	Date
KAB	15/03/24	LG	14/03/24
Checked	Date	Approved	Date
LG	20/03/24	SJGS	20/03/24
Size	Scale	Fairhurst Ref	
A1	1:100	153386-PW-2501	

Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102501	S2	P01.1


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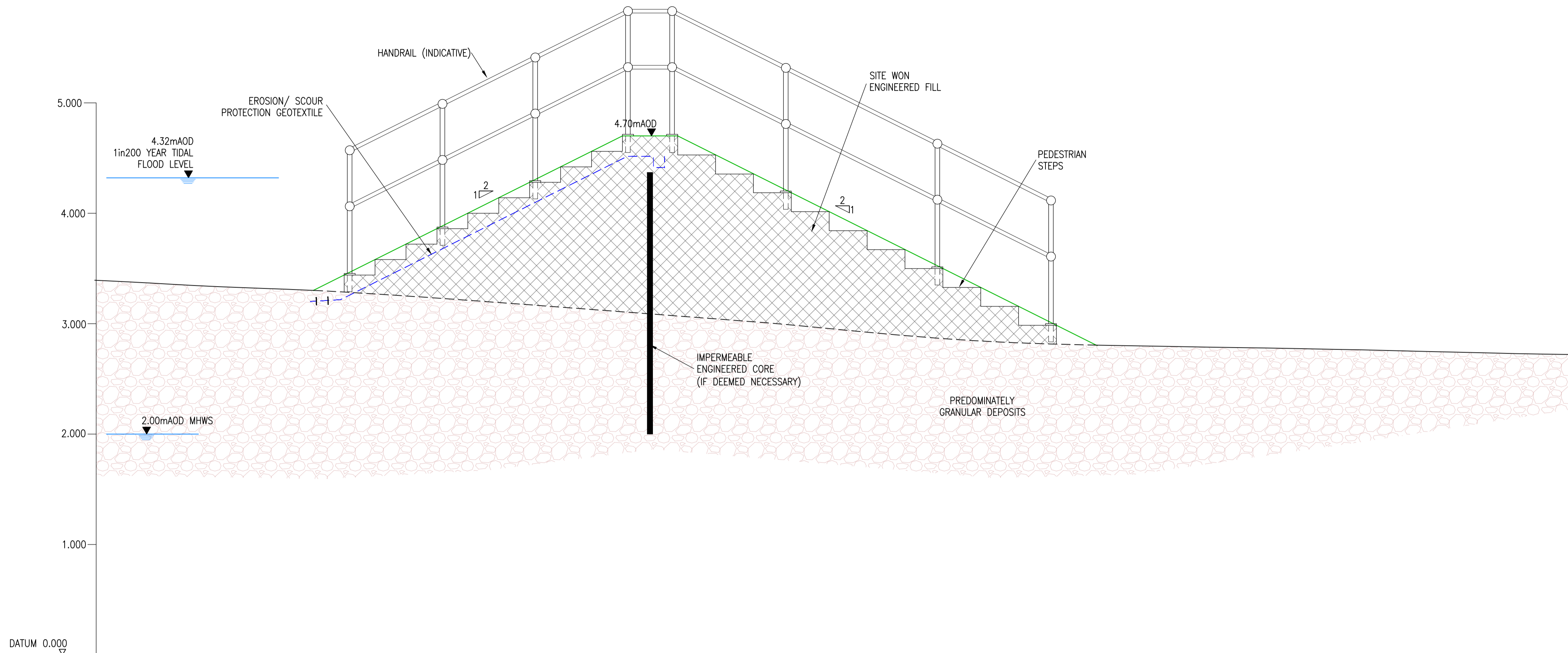
For information relating to use, cleaning and maintenance refer to the Health and Safety file.

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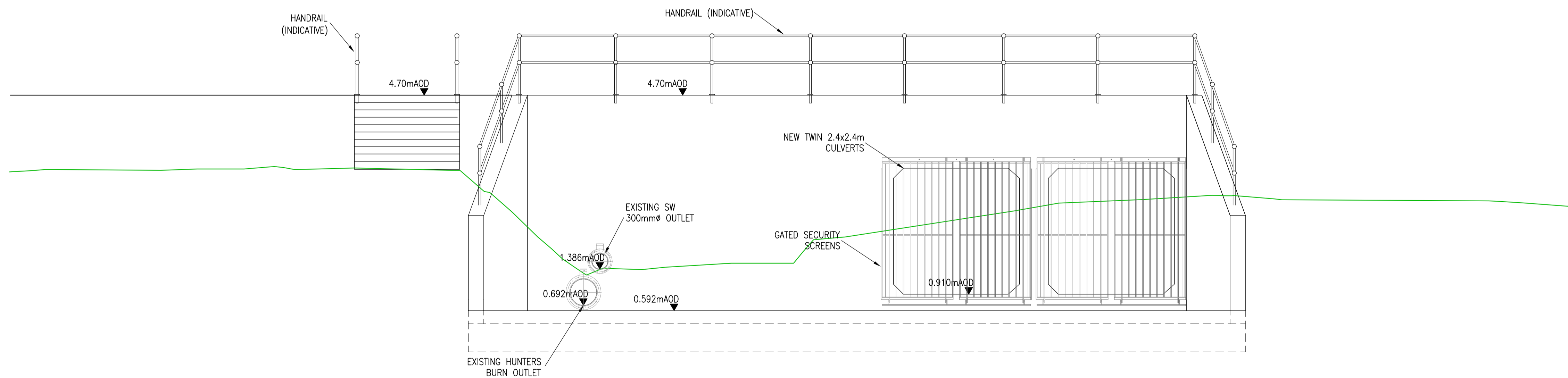
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Notes:

- Refer to drawing GBFAS-FRH-ZZ-DR-W-102501 for plan and location of section/elevation.



SECTION A-A
(Scale 1:25)



ELEVATION B-B
(Scale 1:50)

Rev	Date	Description	Drawn	Chkd	Appd
P01.1	13/03/24	FIRST ISSUE.	KAB	LG	SJGS

For Information



Project Title
**Gruggies Burn
Flood Alleviation Scheme**

Drawing Title
**Outfall Structure
Sections**

Drawn	Date	Designed	Date
KAB	18/03/23	LG	18/03/23
Checked	Date	Approved	Date
LG	20/03/24	SJGS	20/03/24

Size	Scale	Fairhurst Ref
A1	1:50/1:100	153386-PW-2502

Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102502	S2	P01.1

