

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

- CONSTRUCTION**
- Ground instability (soft ground)
 - Groundwater and inundation
 - Services and overhead cables (including SW sewers)
 - Near to waterways
 - Near to railways



- MAINTENANCE AND INSPECTION**
- Ground instability (soft ground)
 - Groundwater and inundation
 - Services and overhead cables (including SW sewers)
 - Near to waterways
 - Near to railways

- RESIDUAL DESIGN RISKS**
- Ground instability (soft ground)
 - Groundwater and inundation
 - Services and overhead cables (including SW sewers)
 - Near to waterways
 - Near to railways



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- Existing Services Legend:**
- HV-D Electricity High Voltage
 - W-D Water
 - BT-D British Telecom
 - SWS-D Surface Drainage
 - CWS-D Combined Drainage

- Embankment Legend:**
- ▨ indicates 1:2 side slope
 - ▩ indicates 1:3 side slope
 - ▧ indicates 1:3 side slope with SW sewer crossing

- Legend:**
- TE01 Operation Reference
 - Special Protection Area (SPA)
 - Scheme Boundary

- Notes:**
1. Services shown on 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.
 2. Refer to drawing GBFAS-FRH-ZZ-DR-W-102004 for embankment sections.

P01.3	20/03/24	THIRD ISSUE	KAB	CMacD	SMcA
P01.2	11/03/24	SECOND ISSUE	KAB	CMacD	SMcA
P01.1	19/02/24	FIRST ISSUE	KAB	CMacD	SMcA
Rev	Date	Description	Drawn	Chkd	Appd

For Information

West Dunbartonshire COUNCIL

Balfour Beatty FAIRHURST

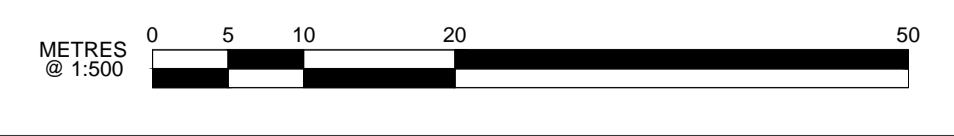
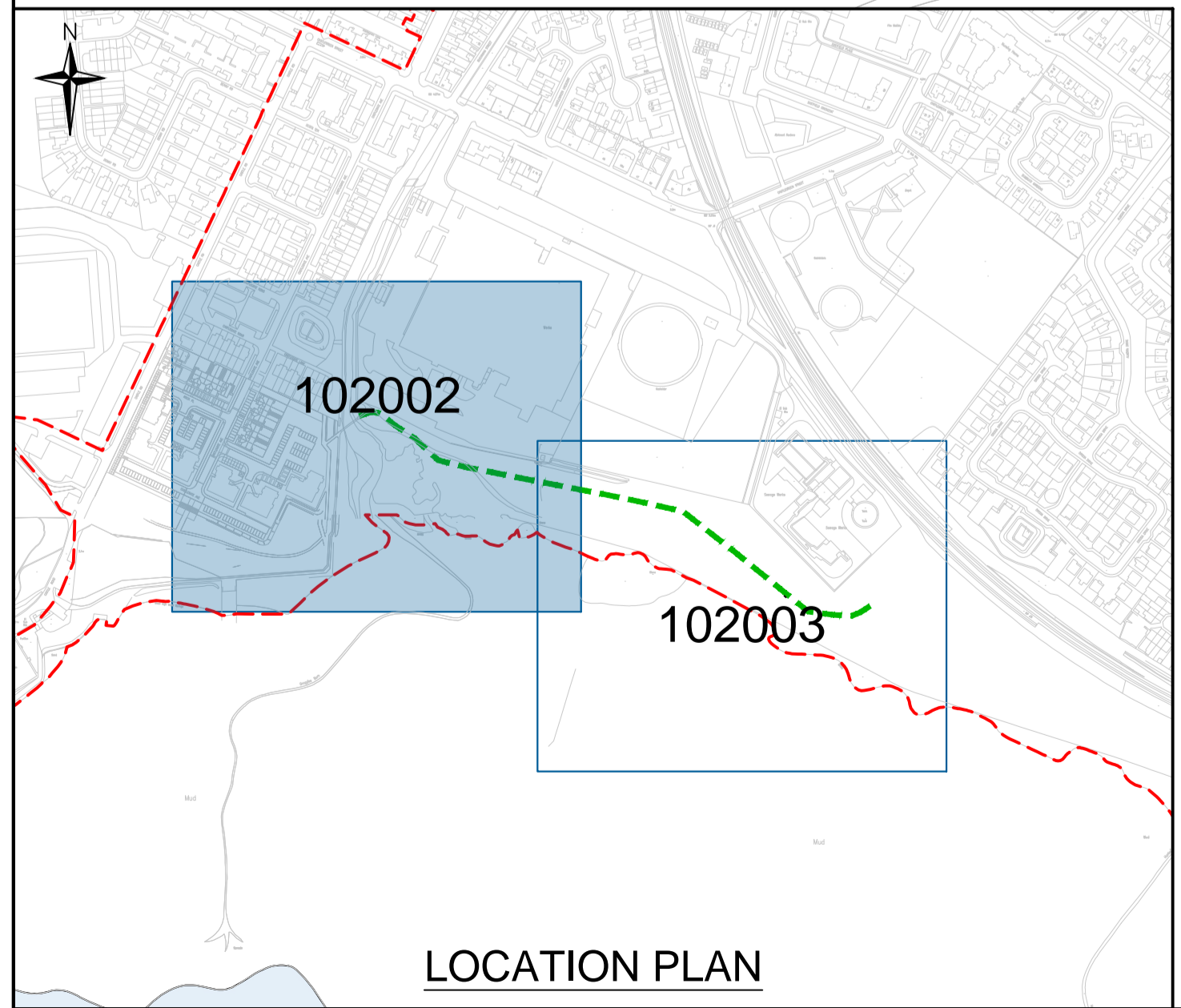
SCAPE SCOTLAND CIVIL ENGINEERING

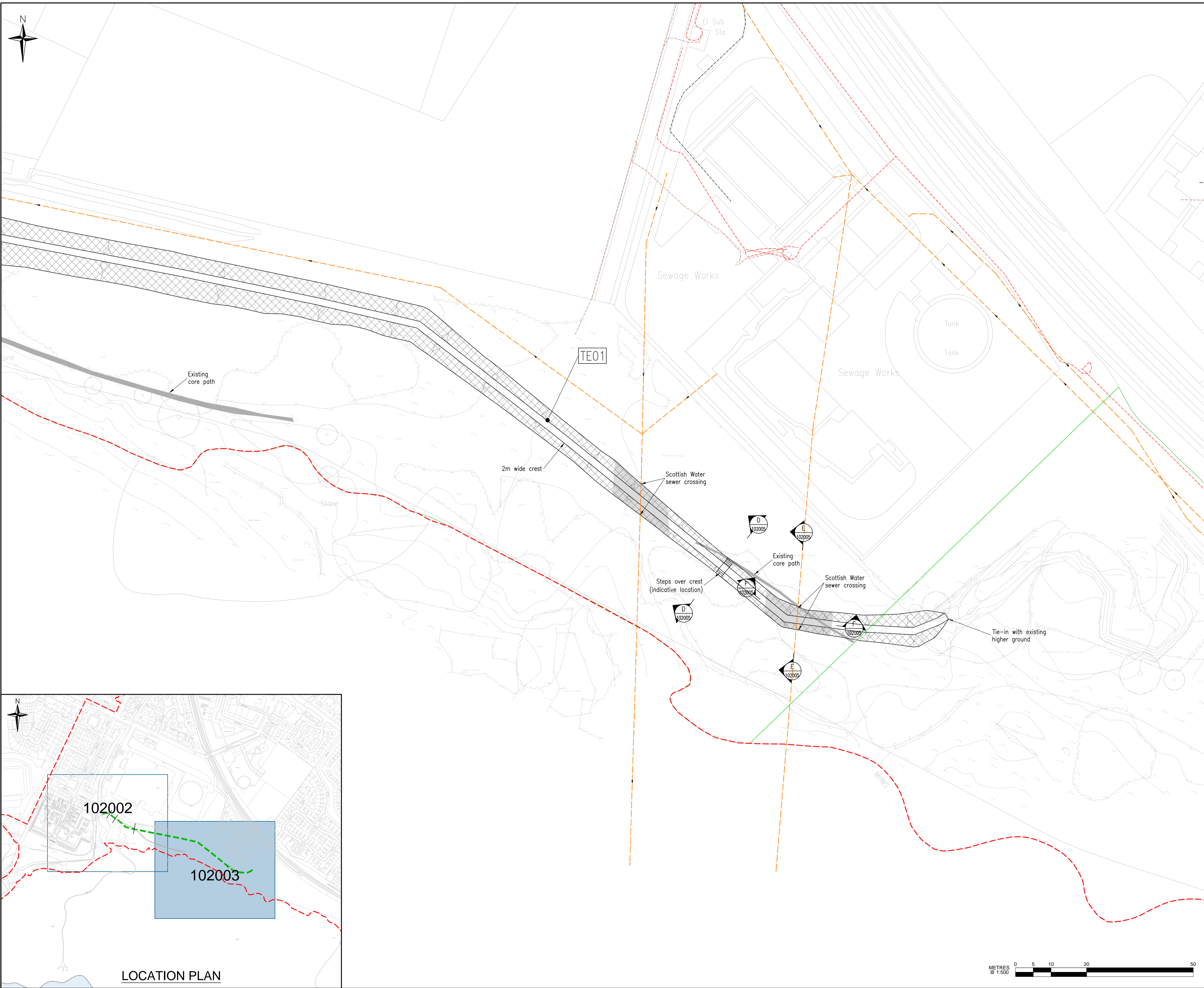
Project Title
Gruggies Burn Flood Alleviation Scheme

Drawing Title
Tidal Embankment Plan Sheet 1 of 2

Drawn	Date	Designed	Date
KAB	15/02/24	CMacD	13/02/24
Checked	Date	Approved	Date
CMacD	19/02/24	SMcA	19/02/24
Size	Scale	Fairhurst Ref	
A1	1:500	153386-PW-2002	

Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102002	S2	P01.3





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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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- RESIDUAL DESIGN RISKS**
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Existing Services Legend:

- HV/G — Electricity High Voltage
- W/D — Water
- BT-D — British Telecom
- SWS-D — Surface Drainage
- CWS-D — Combined Drainage

Embankment Legend:

- ▨ indicates 1:2 side slope
- ▩ indicates 1:3 side slope
- ▧ indicates 1:3 side slope with SW sewer crossing

Legend:

- TE01 Operation Reference
- Special Protection Area (SPA)
- Scheme Boundary

Notes:

1. Services shown on 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.
2. Refer to drawing GBFAS-FRH-ZZ-DR-W-102004 for embankment sections.

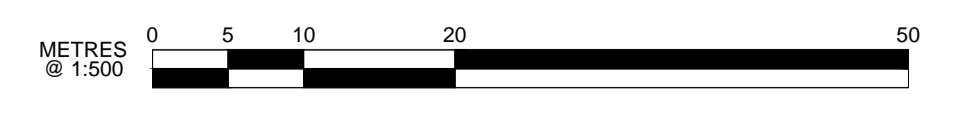
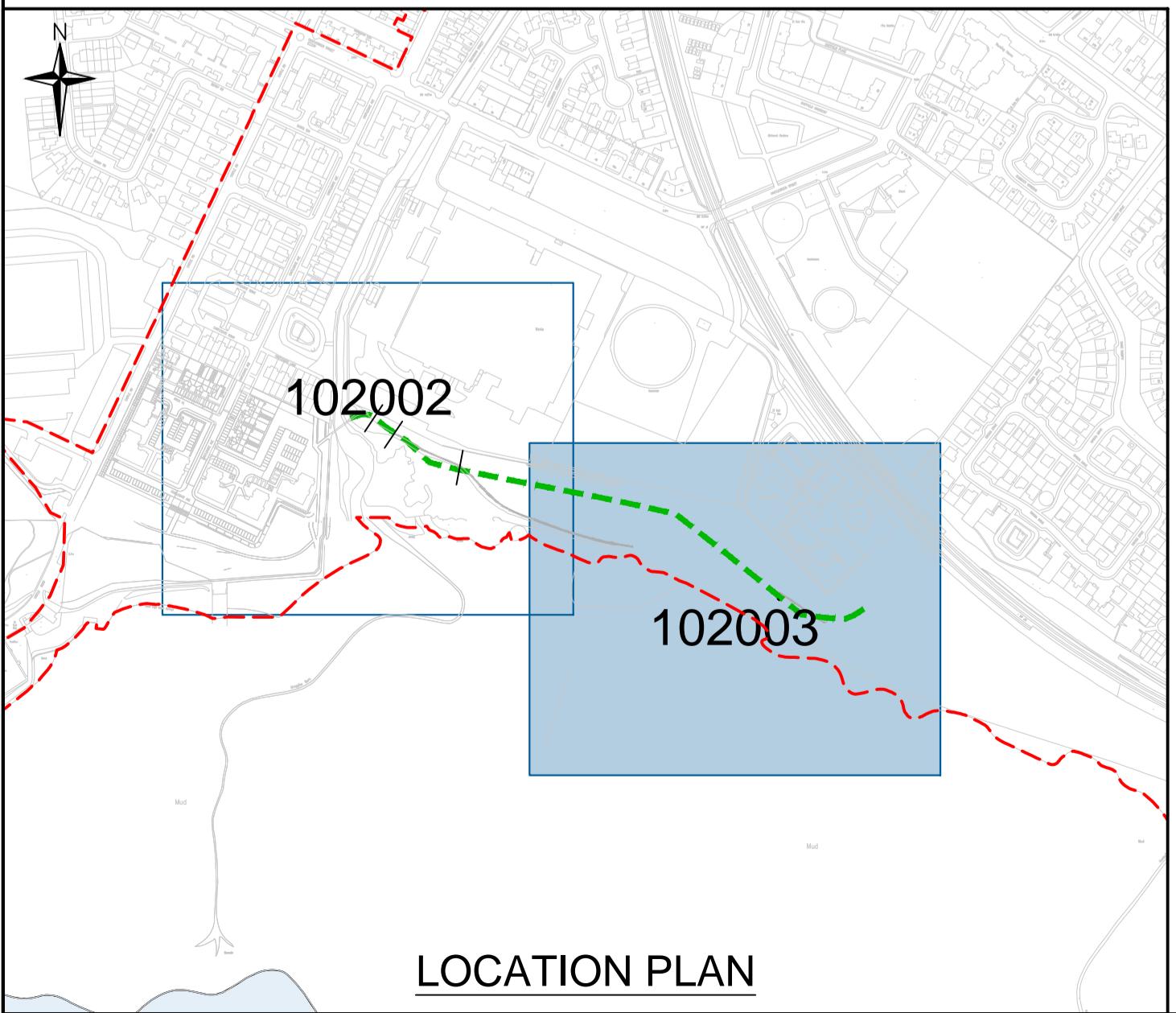
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P01.2	11/03/24	SECOND ISSUE	KAB	CMacD	SMcA
P01.1	19/02/24	FIRST ISSUE	KAB	CMacD	SMcA
Rev	Date	Description	Drawn	Chkd	Appd

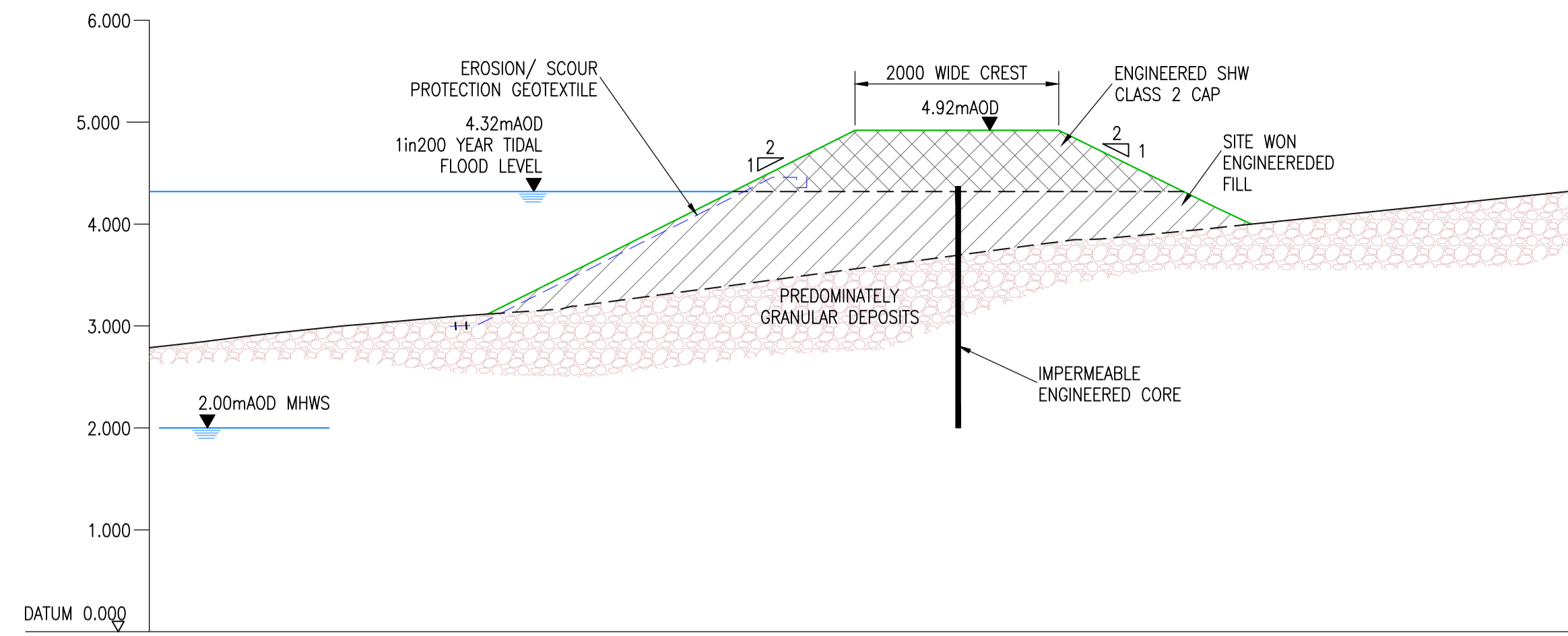
For Information

Project Title
**Gruggies Burn
Flood Alleviation Scheme**

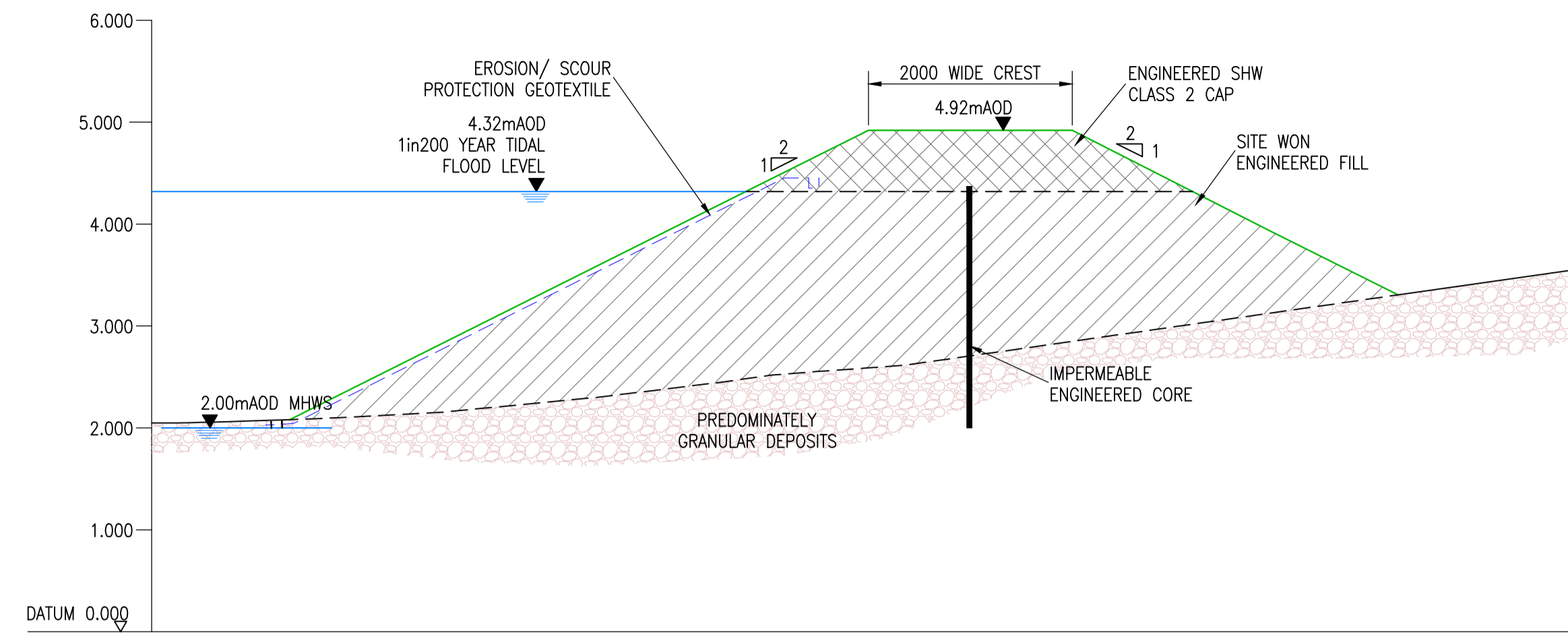
Drawing Title
**Tidal Embankment Plan
Sheet 2 of 2**

Drawn	Date	Designed	Date
KAB	15/02/24	CMacD	13/02/24
Checked	Date	Approved	Date
CMacD	19/02/24	SMcA	19/02/24
Size	Scale	Fairhurst Ref	
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Drawing Number	Status	Revision	
GBFAS-FRH-ZZ-DR-W-102003	S2	P01.3	

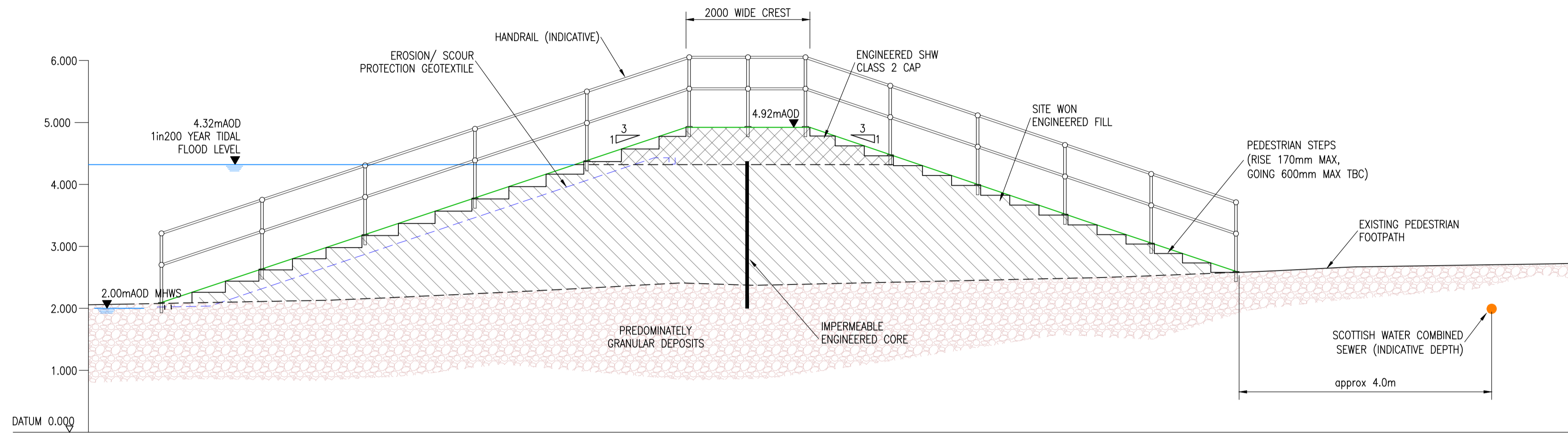




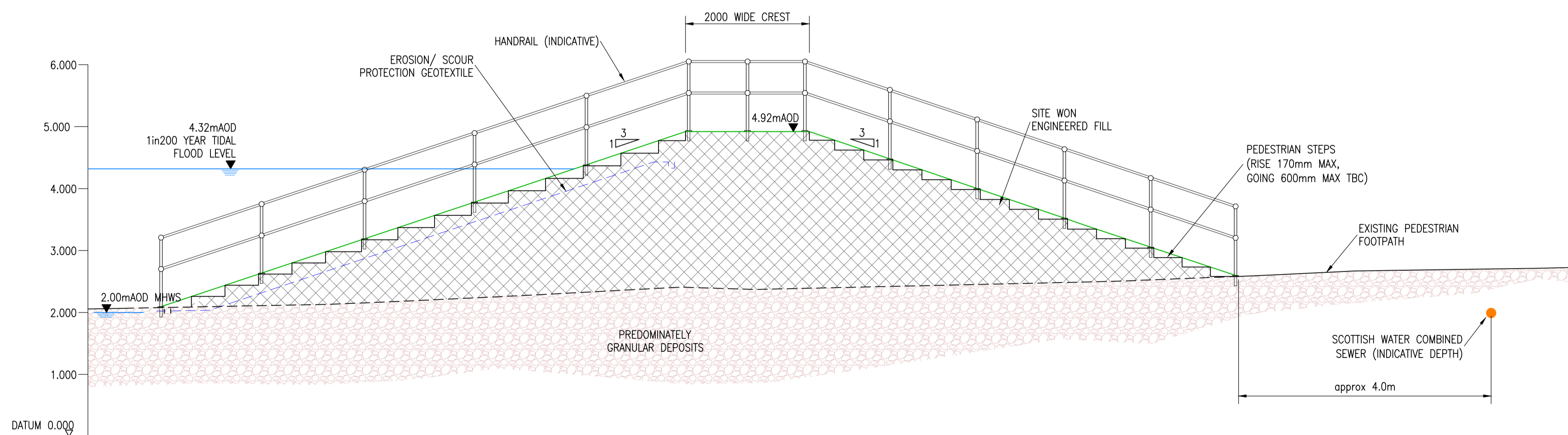
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(Scale 1:50)



SECTION B-B
(Scale 1:50)



SECTION C-C (OPTION 1)
(Scale 1:50)



SECTION C-C (OPTION 2)
(Scale 1:50)

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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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MAINTENANCE AND INSPECTION

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RESIDUAL DESIGN RISKS

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Notes:

1. Refer to drawings GBFAS-FRH-ZZ-DR-W-102002 and 102003 for section locations.
2. Refer to drawings GBFAS-FRH-ZZ-DR-W-102006 and 102007 for long section.
3. Dimensions in millimetres unless stated otherwise.
4. Embankment sections are indicative only and subject to detail design.

Legend:

- Existing ground level
- Proposed ground profile
- ▨ Proposed embankment fill (1 in 2 or 1 in 3 side slopes) - site won engineered fill with an impermeable core
- ▩ Proposed embankment fill (1 in 3 side slope) - low permeability (<10⁻⁷ m/s) shw class 2 fill

P01.3	20/03/24	THIRD ISSUE	KAB	CMacD	SMcA
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Rev	Date	Description	Drawn	Chkd	Appd

For Information

West
Dunbartonshire
COUNCIL

Balfour Beatty FAIRHURST

SCAPE SCOTLAND
CIVIL ENGINEERING

Project Title
Gruggies Burn
Flood Alleviation Scheme

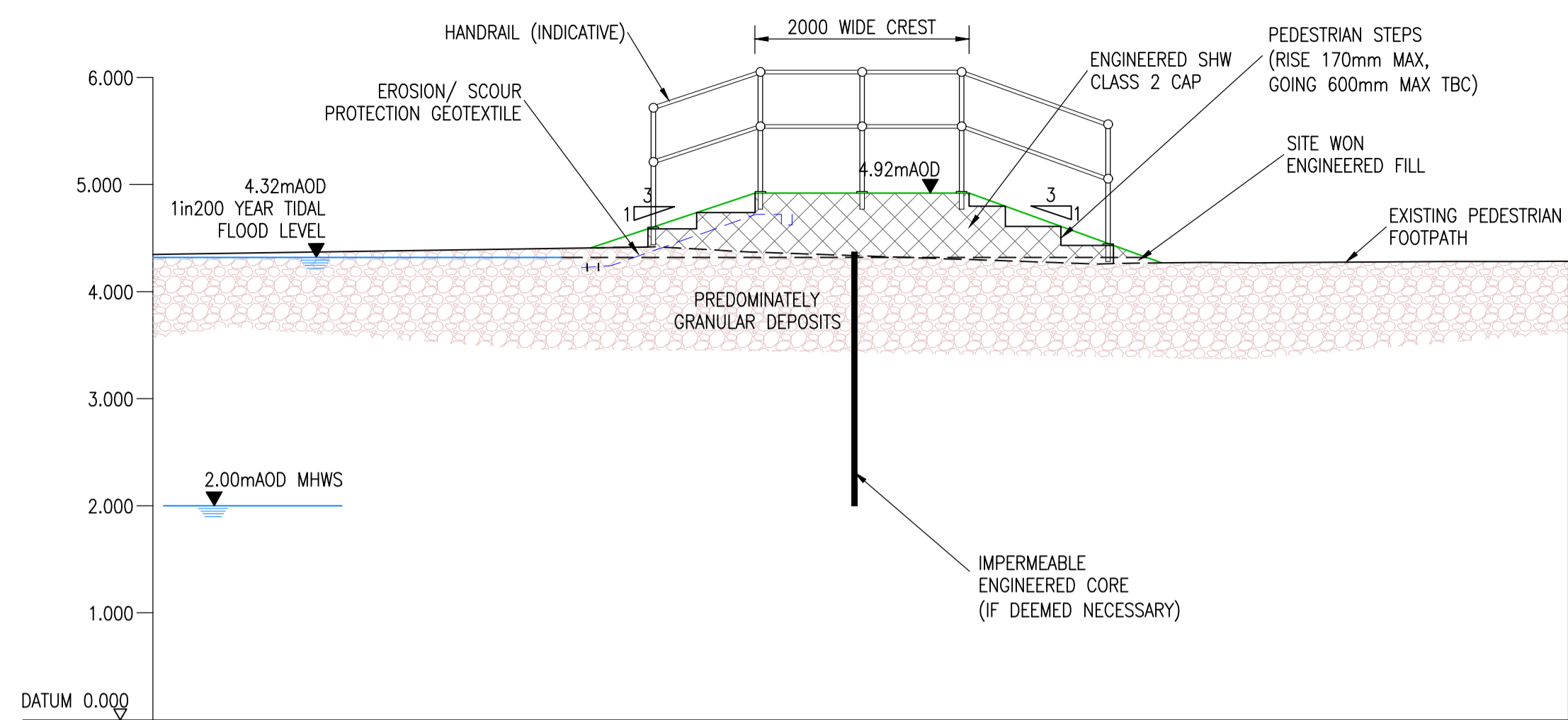
Drawing Title
Tidal Embankment Sections
Sheet 1 of 2

Drawn	Date	Designed	Date
KAB	15/02/24	CMacD	13/02/24
Checked	Date	Approved	Date
CMacD	19/02/24	SMcA	19/02/24

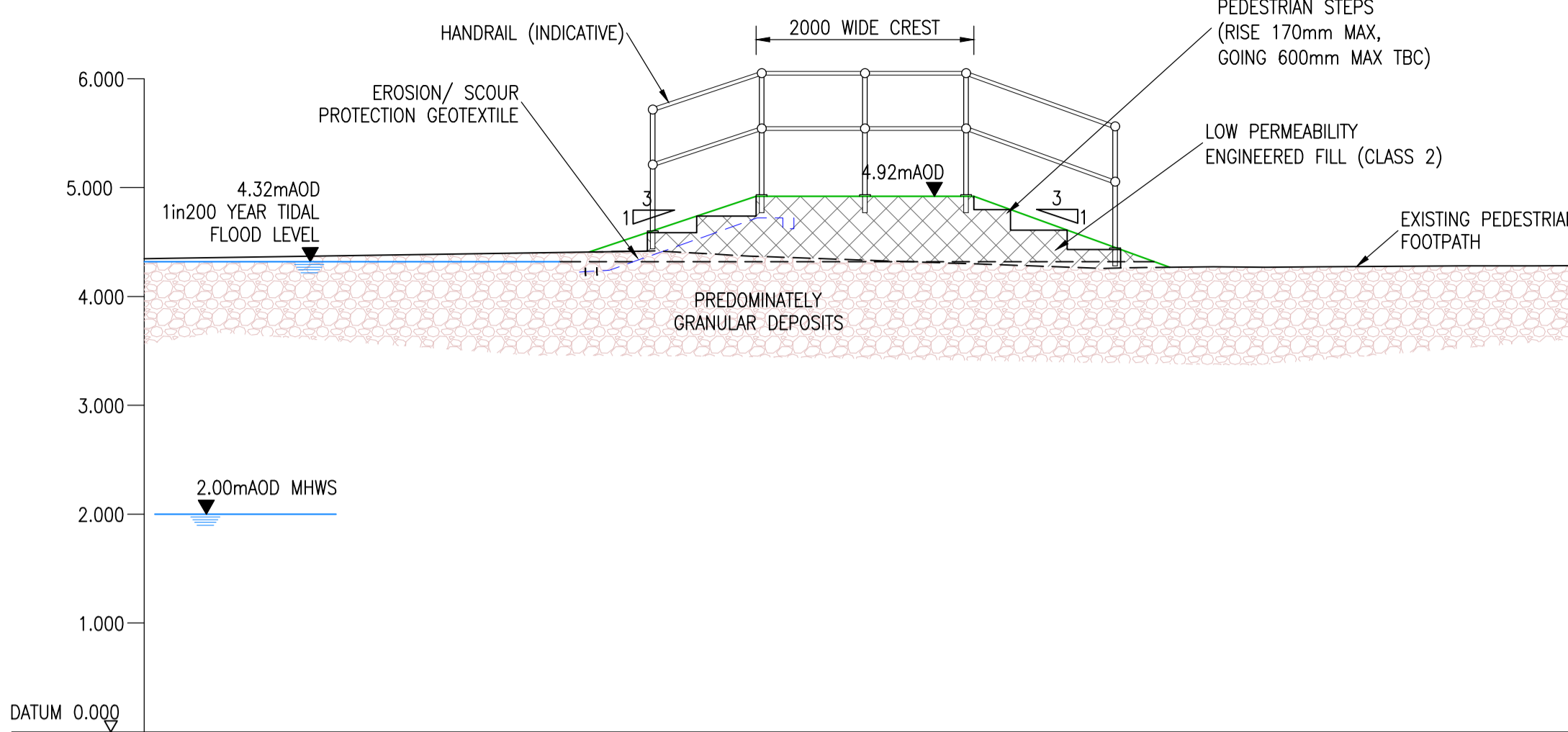
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A1	1:50	153386-PW-2004

Drawing Number	Status	Revision
GBFAS-FRH-ZZ-DR-W-102004	S2	P01.3

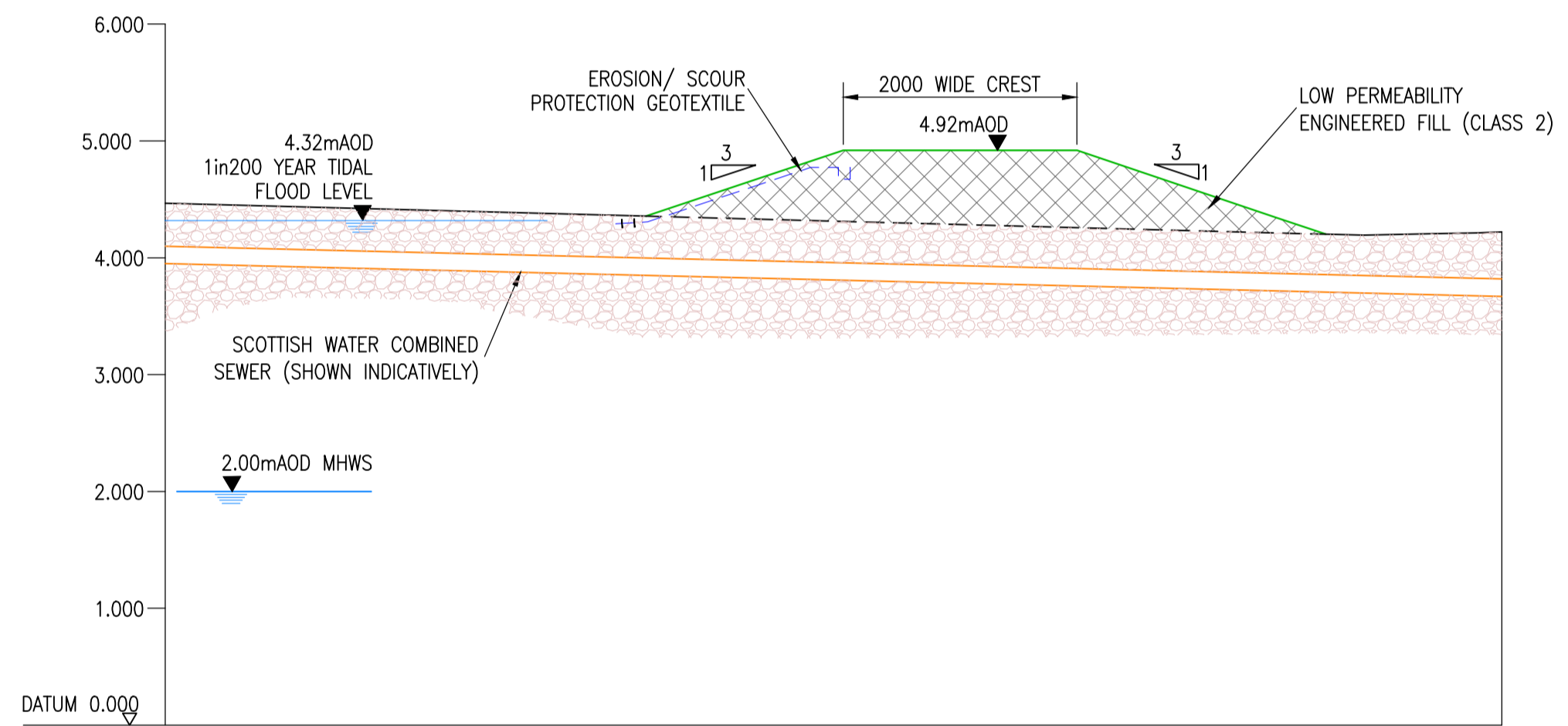




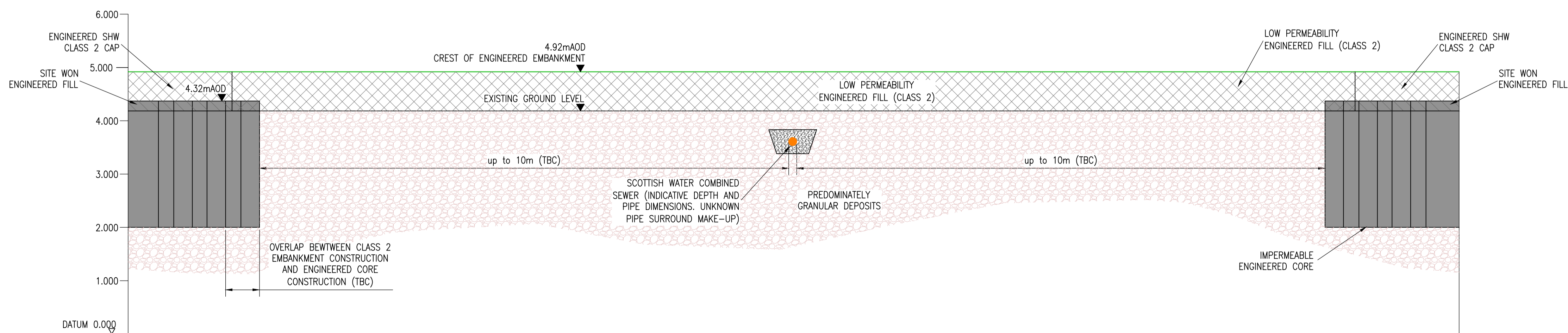
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(Scale 1:50)



SECTION D-D (OPTION 2)
(Scale 1:50)



SECTION E-E
(Scale 1:50)



SECTION F-F
(Scale 1:50)



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P01.2	20/03/24	SECOND ISSUE	KAB	CMacD	SMcA
P01.1	11/03/24	FIRST ISSUE	KAB	CMacD	SMcA

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SCAPE SCOTLAND
CIVIL ENGINEERING

Project Title
**Gruggies Burn
Flood Alleviation Scheme**

Drawing Title
**Tidal Embankment Sections
Sheet 2 of 2**

Drawn	Date	Designed	Date
KAB	11/03/24	CMacD	11/03/24
Checked	Date	Approved	Date
CMacD	11/03/24	SMcA	11/03/24
Size	Scale	Fairhurst Ref	Revision
A1	1:50	153386-PW-2005	
Drawing Number	Status	Revision	
GBFAS-FRH-ZZ-DR-W-102005	S2	P01.2	

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Legend:

- Existing ground level
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P01.1	11/03/24	FIRST ISSUE	KAB	CMacD	SMcA

For Information

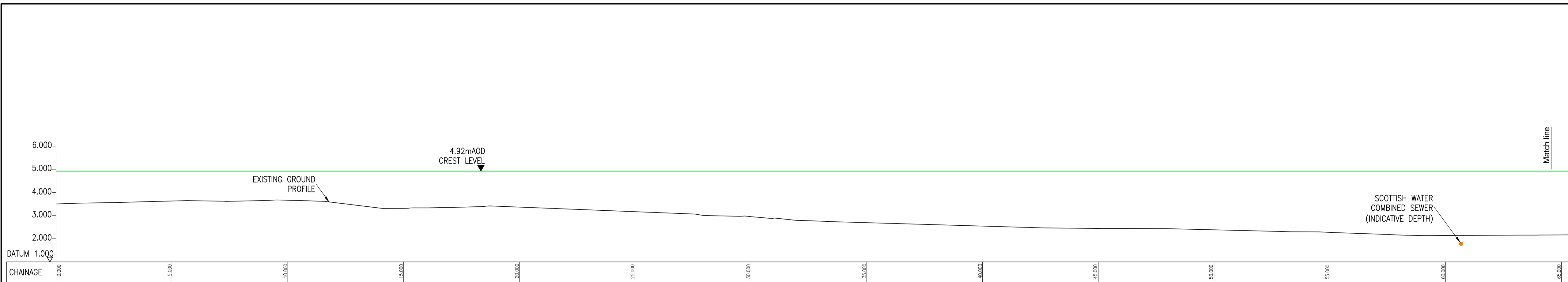
Gruggies Burn
Flood Alleviation Scheme

Tidal Embankment Long Section
Sheet 1 of 2

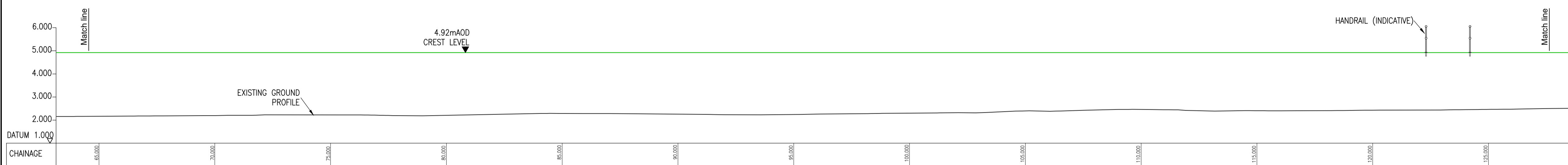
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KAB	11/03/24	CMacD	11/03/24
Checked	Date	Approved	Date
CMacD	11/03/24	SMcA	11/03/24

Size: A1 | Scale: 1:100 | Fairhurst Ref: 153386-PW-2006

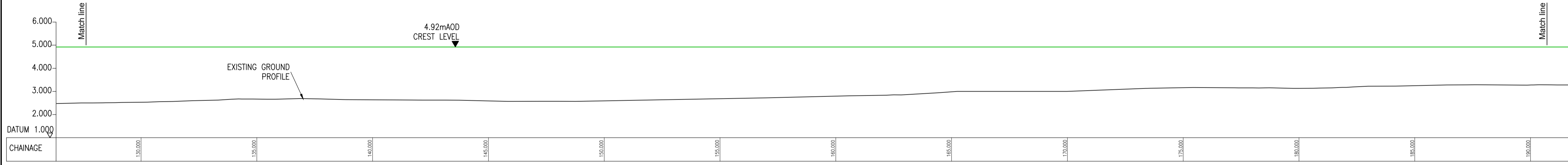
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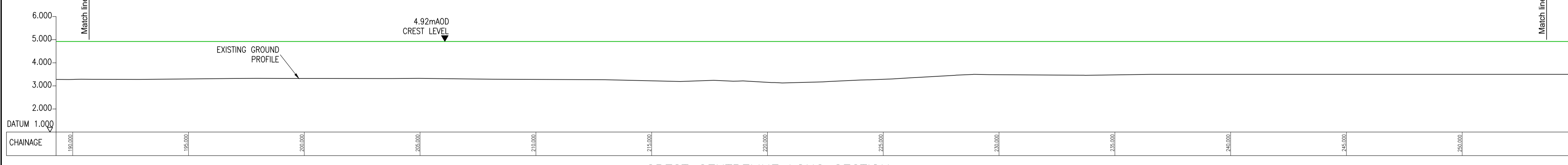
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(Scale 1:100)



CREST CENTRELINE LONG SECTION
(Scale 1:100)



CREST CENTRELINE LONG SECTION
(Scale 1:100)



CREST CENTRELINE LONG SECTION
(Scale 1:100)



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Legend:

- Existing ground level
- Proposed ground profile

Rev	Date	Description	Drawn	Chkd	Appd
P01.2	20/03/24	SECOND ISSUE	KAB	CMacD	SMcA
P01.1	11/03/24	FIRST ISSUE	KAB	CMacD	SMcA

For Information



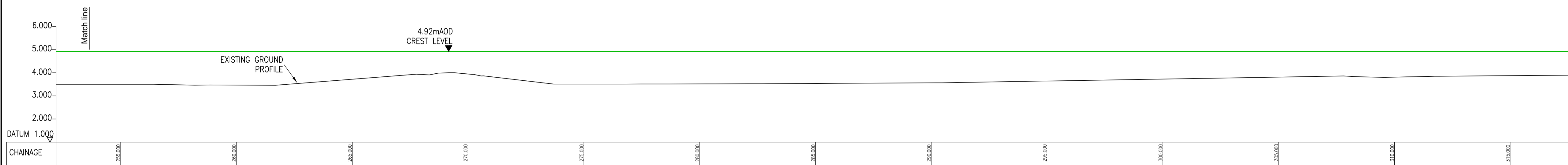
Project Title
**Gruggies Burn
Flood Alleviation Scheme**

Drawing Title
**Tidal Embankment Long Section
Sheet 2 of 2**

Drawn KAB	Date 11/03/24	Designed CMacD	Date 11/03/24
Checked CMacD	Date	Approved SMcA	Date

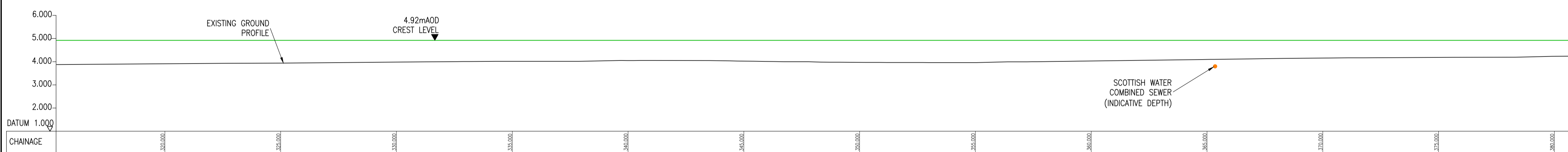
Size A1	Scale 1:100	Fairhurst Ref 153386-PW-2007
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Drawing Number GBFAS-FRH-ZZ-DR-W-102007	Status S2	Revision P01.2
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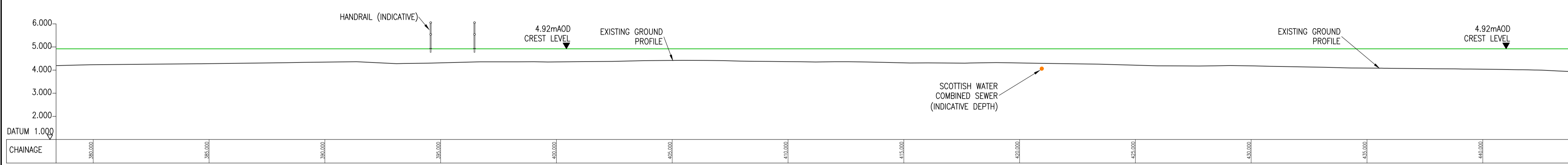
CREST CENTRELINE LONG SECTION

(Scale 1:100)



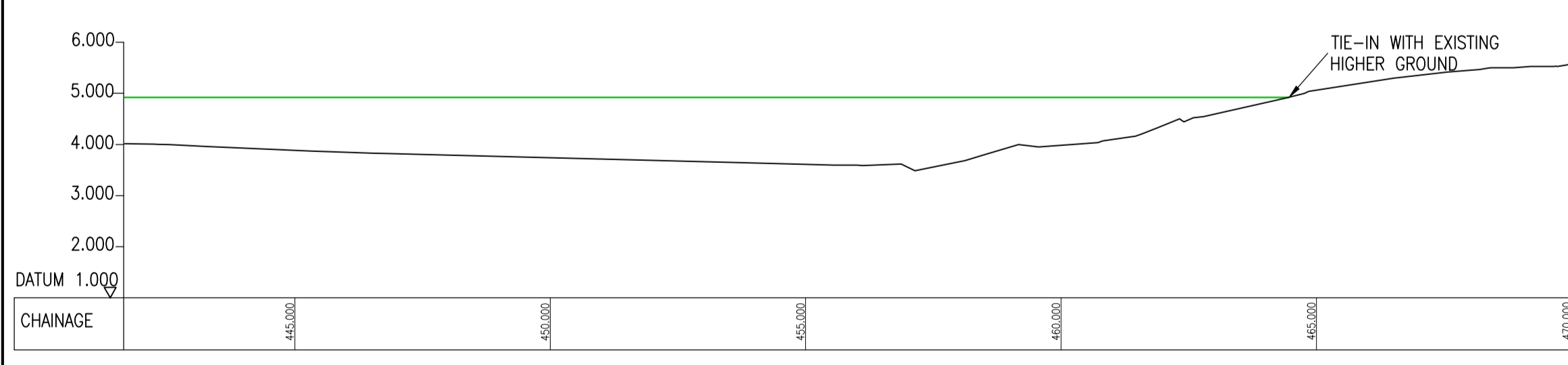
CREST CENTRELINE LONG SECTION

(Scale 1:100)



CREST CENTRELINE LONG SECTION

(Scale 1:100)



CREST CENTRELINE LONG SECTION

(Scale 1:100)

