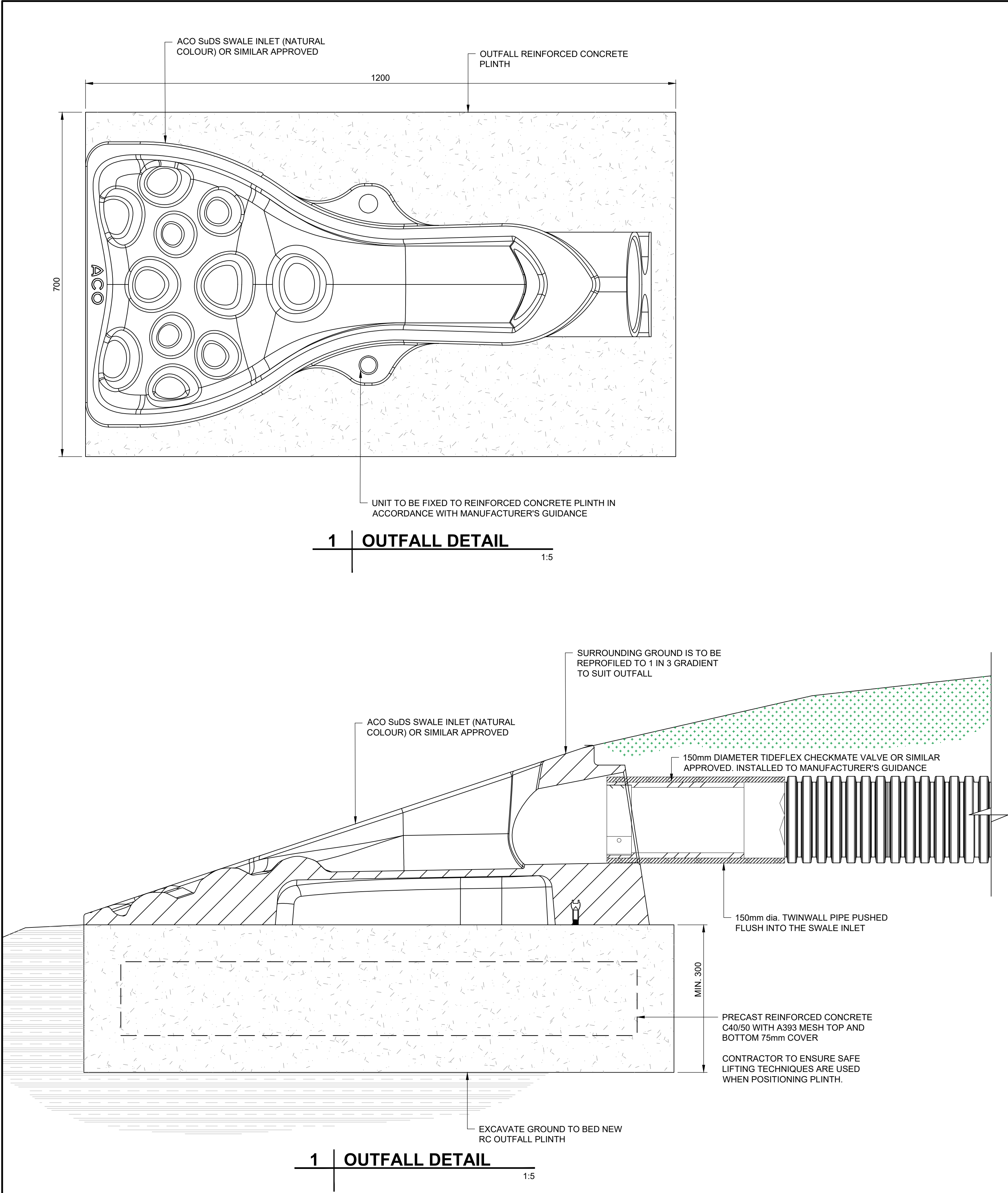


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Drawn: CP
Approved: JS
Checked: HR
Designer: CP
Project Management Initials: C01
Revision: C01

Last saved by: KEVIN GABB(2024.03.12) Last Plotted: 2024.03.13
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SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011041 FOR SHE INFORMATION.

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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

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- NOTES
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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
F2 DRAINAGE PLAN - # 011041

DRAWING SPECIFIC NOTES

- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
 - REFER TO DRAWING # 021050 FOR INSPECTION CHAMBER AND RODDING POINT DETAIL
 - REFER TO DRAWING # 051204 FOR FILTER DRAIN DETAIL
 - REFER TO DRAWING #051205 FOR CHANNEL DRAIN DETAIL
 - REFER TO DRAWING # 051204, # 051205 AND # 051206 FOR TYPICAL CROSS-SECTION DETAILS

ISSUE/REVISION		
P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

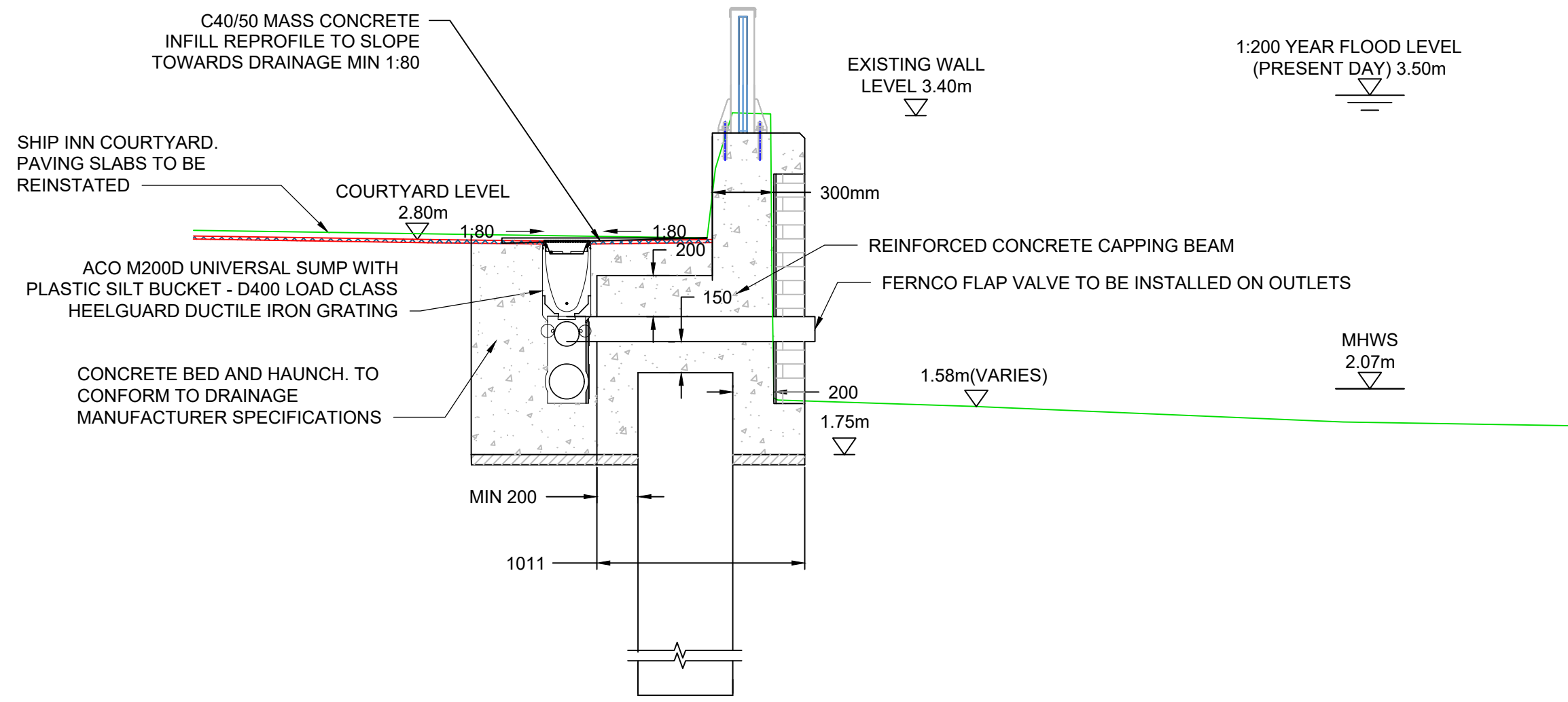
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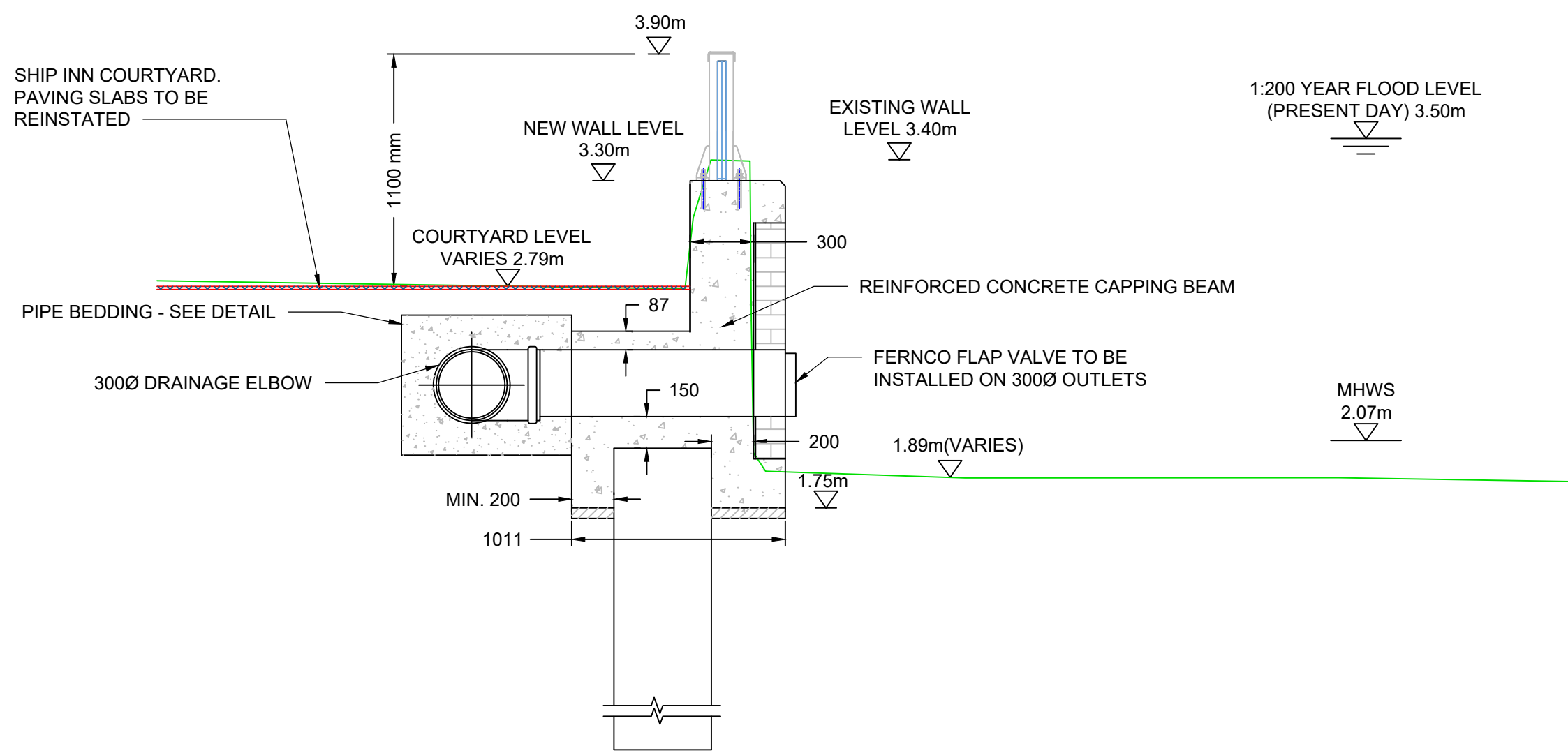
FRONTAGE 2
SURFACE WATER
TYPICAL DRAINAGE DETAILS

SHEET NUMBER

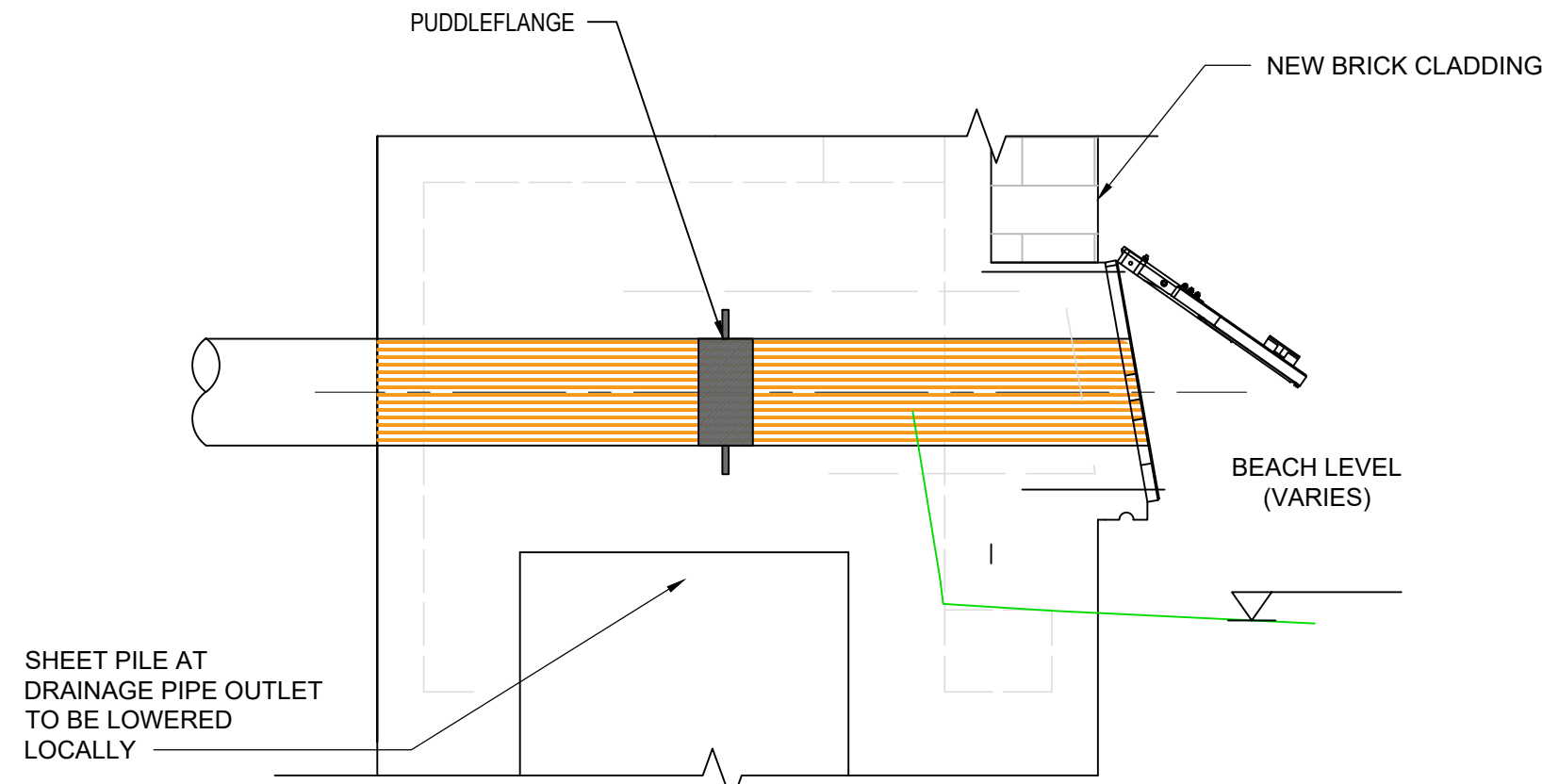
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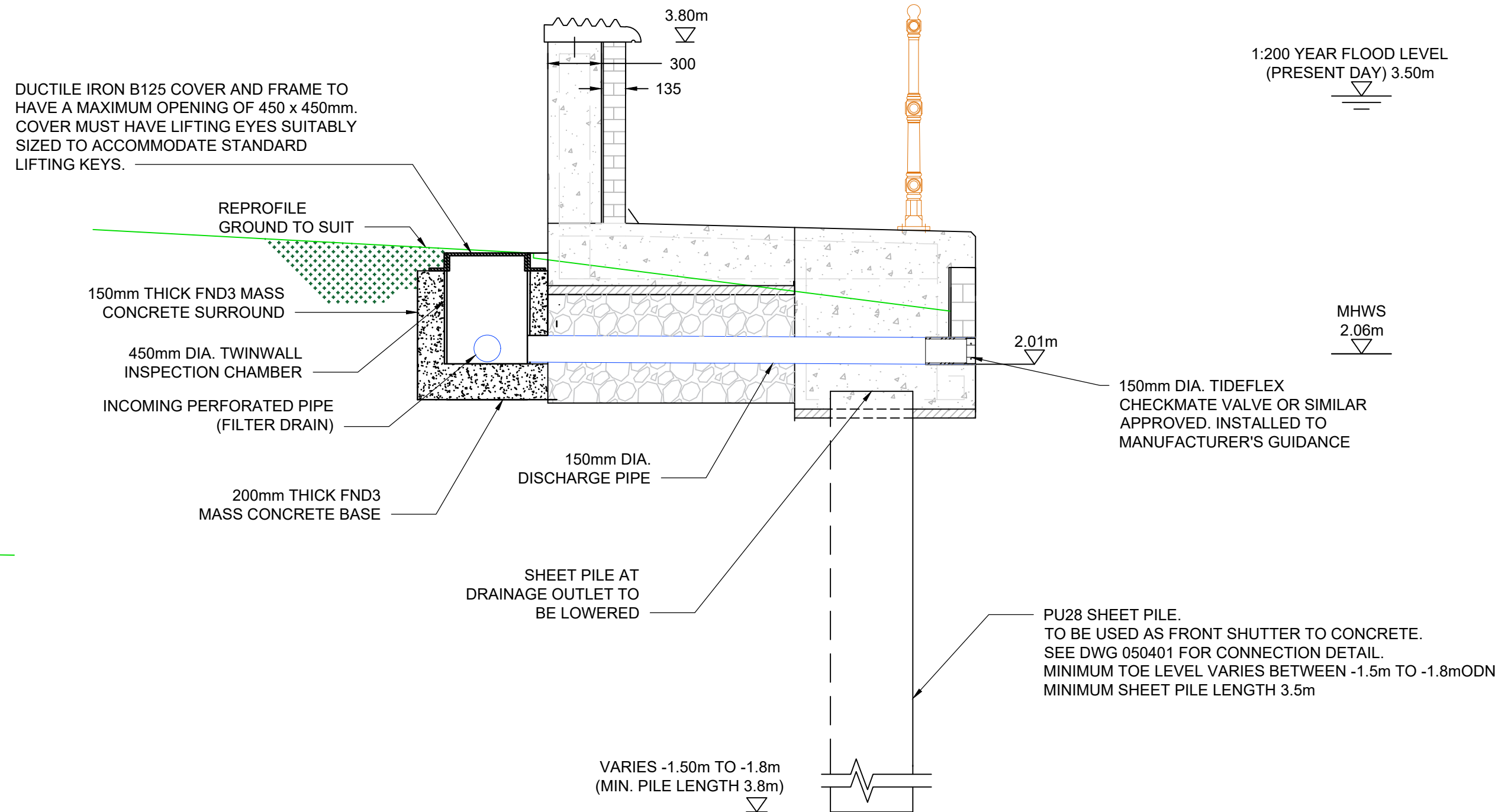
160MM OUTFALL CROSS SECTION - FRONTAGE 3 - CH75.0D



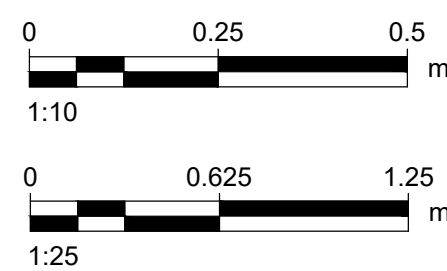
300MM OUTFALL CROSS SECTION - FRONTAGE 3 - CH63.0D



EXTENSION CROSS-SECTIONAL DETAIL



SHIP INN ANNEX INSPECTION CHAMBER AND OUTLET DETAIL



PROJECT

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 - ALSO REFER TO DRAWINGS:
FRONTAGE 3 DRAINAGE PLAN - # 011045
FRONTAGE 3 DRAINAGE LONG SECTION - # 021046

- DRAWING SPECIFIC NOTES
- DRAINAGE PROFILE TO FOLLOW GROUND PROFILE UNLESS OTHERWISE INDICATED
 - DRAINAGE INSTALLATION AS PER MANUFACTURER DETAILS: 21999 ACO UNIVERSAL GULLY D400 ASPHALT PAVEMENT INSTALLATION REV B; 21830 ACO MULTIDRAIN M200D 20.0 CHANNEL INSTALLATION DETAIL REV F; 21848 ACO MULTIDRAIN M200D UNIVERSAL SUMP INSTALLATION DETAIL REV E
 - IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED.
 - A GAP IN THE SHEET PILE TOP LEVELS REQUIRED FOR INSTALLATION OF DRAINAGE OUTLETS

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

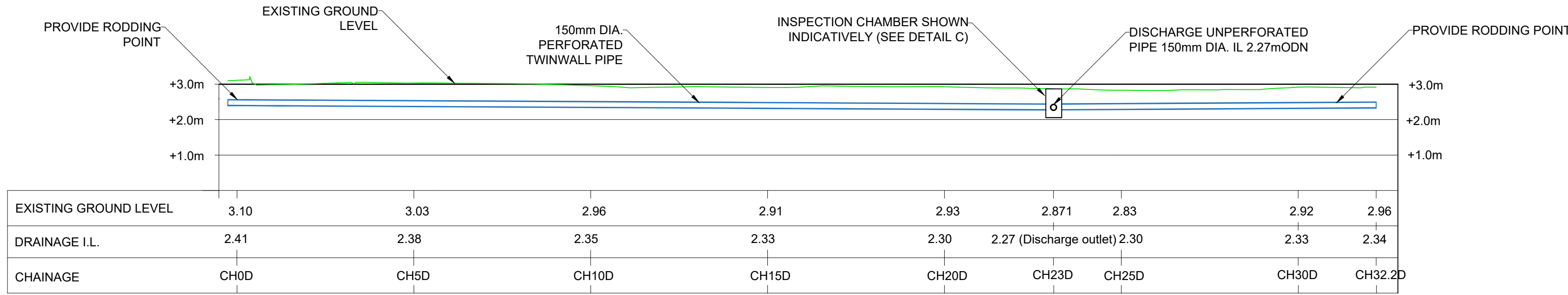
FRONTAGE 3
SURFACE WATER
DRAINAGE TYPICAL DETAILS

SHEET NUMBER

LANG-ACM-SW-F3-DR-ZZ-051048

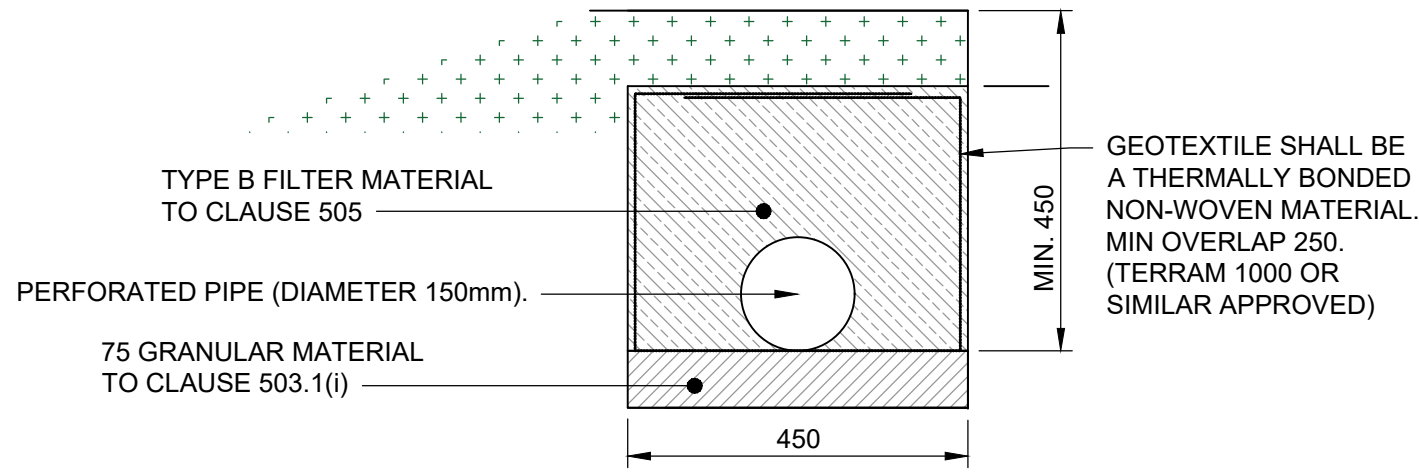
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Drawn: CP
Approved: JS
Checked: HR
Designer: CP
Project Management Initials: C01
Revision:
Last saved by: KEVIN GABB(2024.03.12) Last Plotted: 2024.03.13
Filename: C:\pwworking\aecom\us09_uk_2020\04\54973\LANG-ACM-SW-F4-DR-ZZ-021050

HAT +2.67 m ODN
MHWS +2.07 m ODN
MHWN +1.17 m ODN
MSL +0.2 m ODN
MLWN -0.83 m ODN
MLWS -1.93 m ODN
LAT -2.63 m ODN
0.0 m ODN



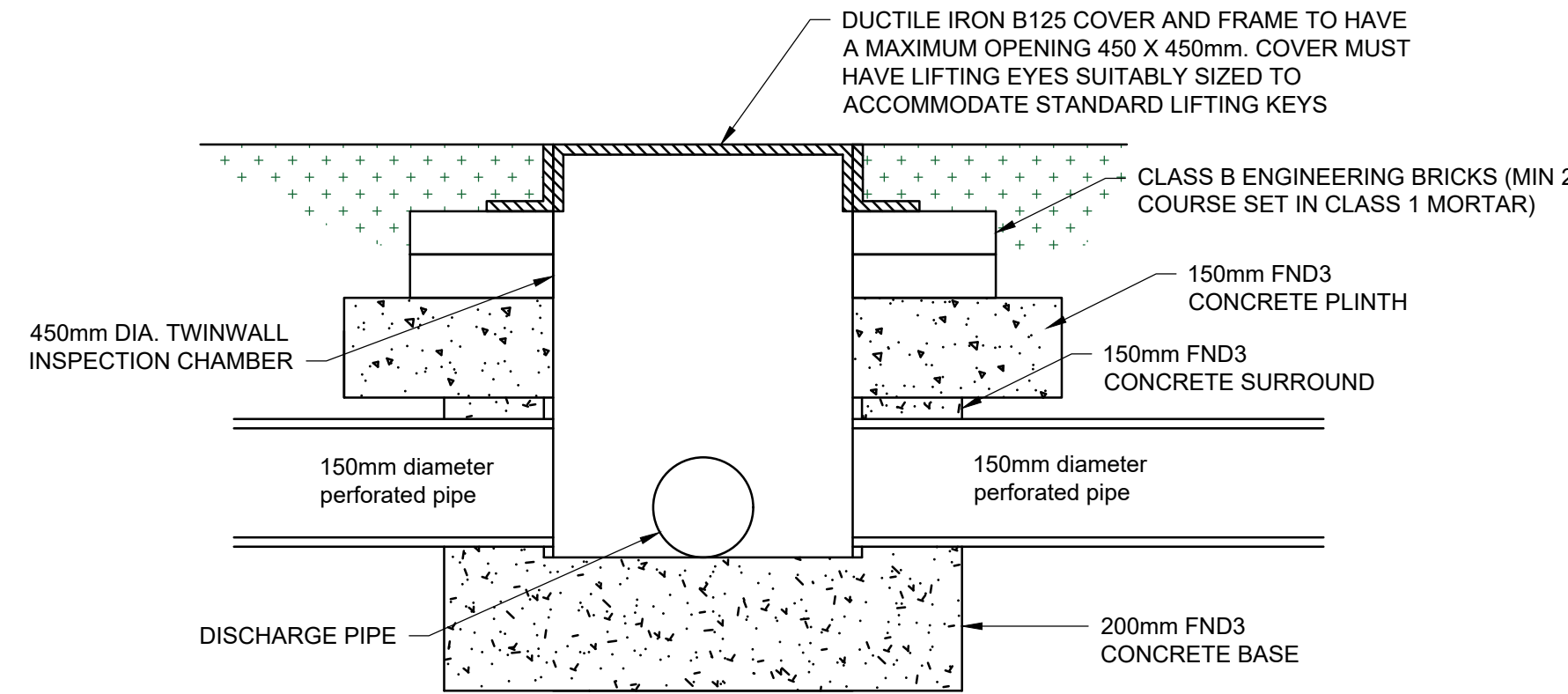
A GREEN COTTAGE - DRAINAGE CHAINAGE CH0 TO CH32.2

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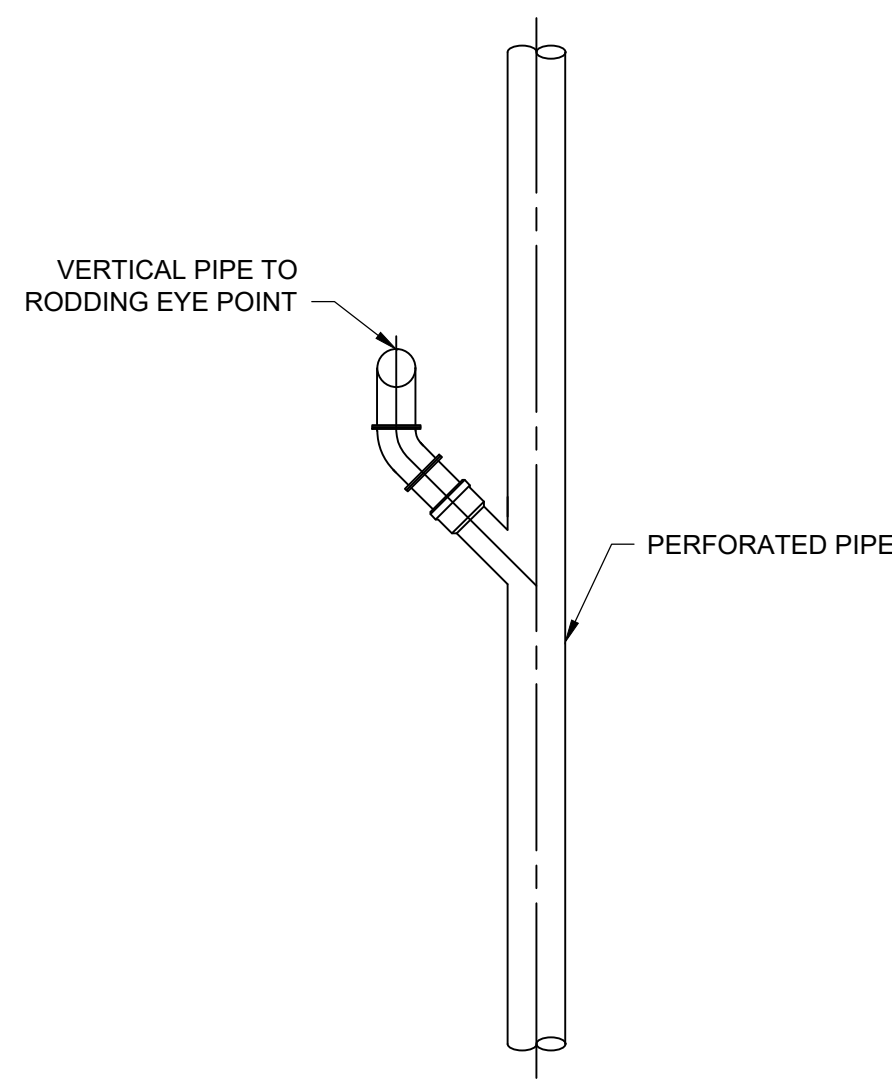
B FILTER DRAIN DETAIL

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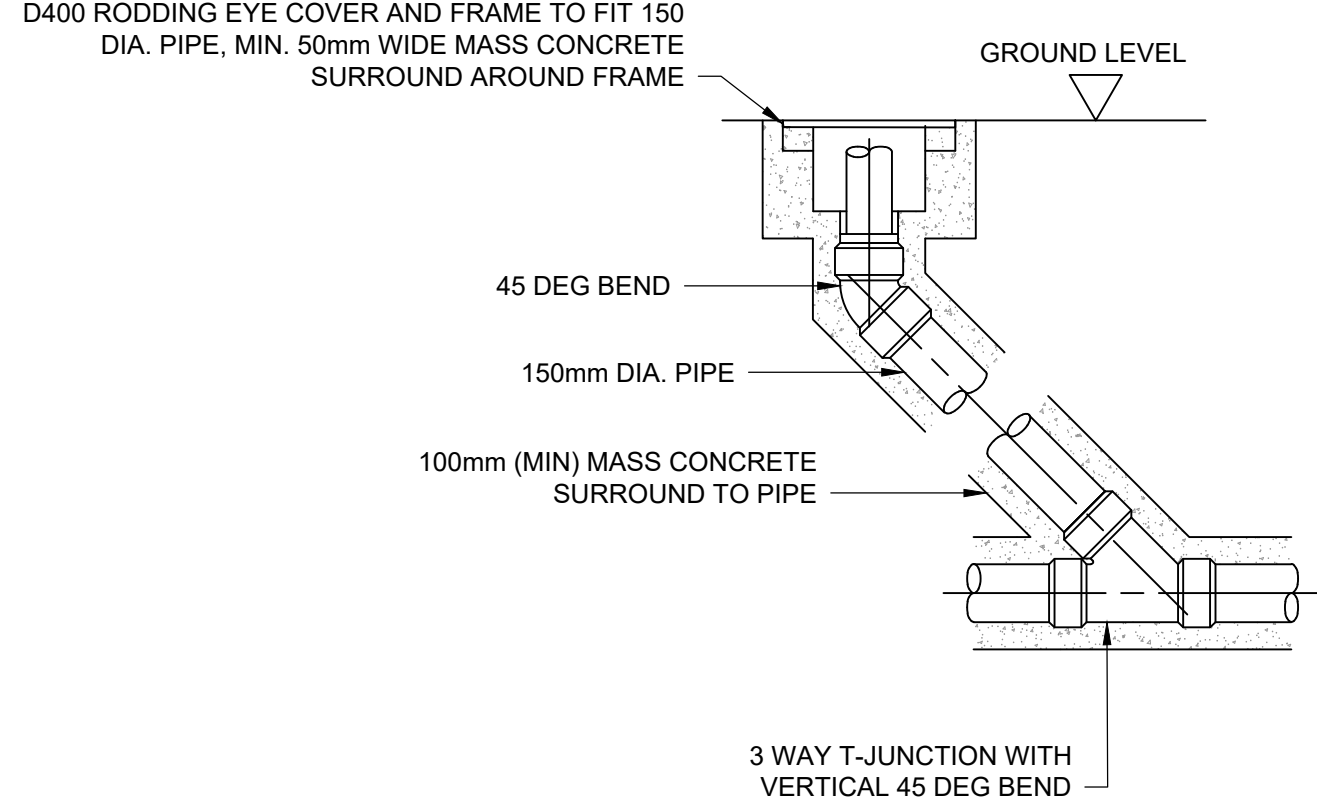
C INSPECTION CHAMBER DETAIL

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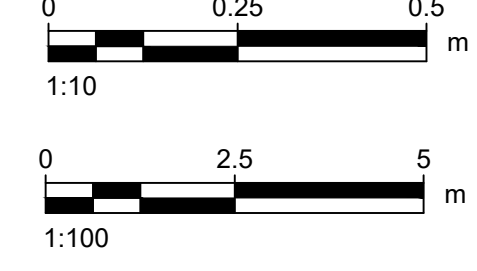
D TYPICAL RODDING POINT DETAIL - PLAN

1:25



E TYPICAL RODDING POINT DETAIL - SECTION

1:25



SAFETY HEALTH AND ENVIRONMENT INFORMATION
PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.

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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

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 - ALSO REFER TO DRAWINGS:
DRAINAGE PLAN - # 011049
- DRAWING SPECIFIC NOTES
- DRAINAGE PROFILE TO FOLLOW EXISTING GROUND LEVEL PROFILE UNLESS OTHERWISE INDICATED
 - REFER TO DRAWING # 051406 FOR TYPICAL CROSS-SECTION DETAILS

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

PROJECT NUMBER

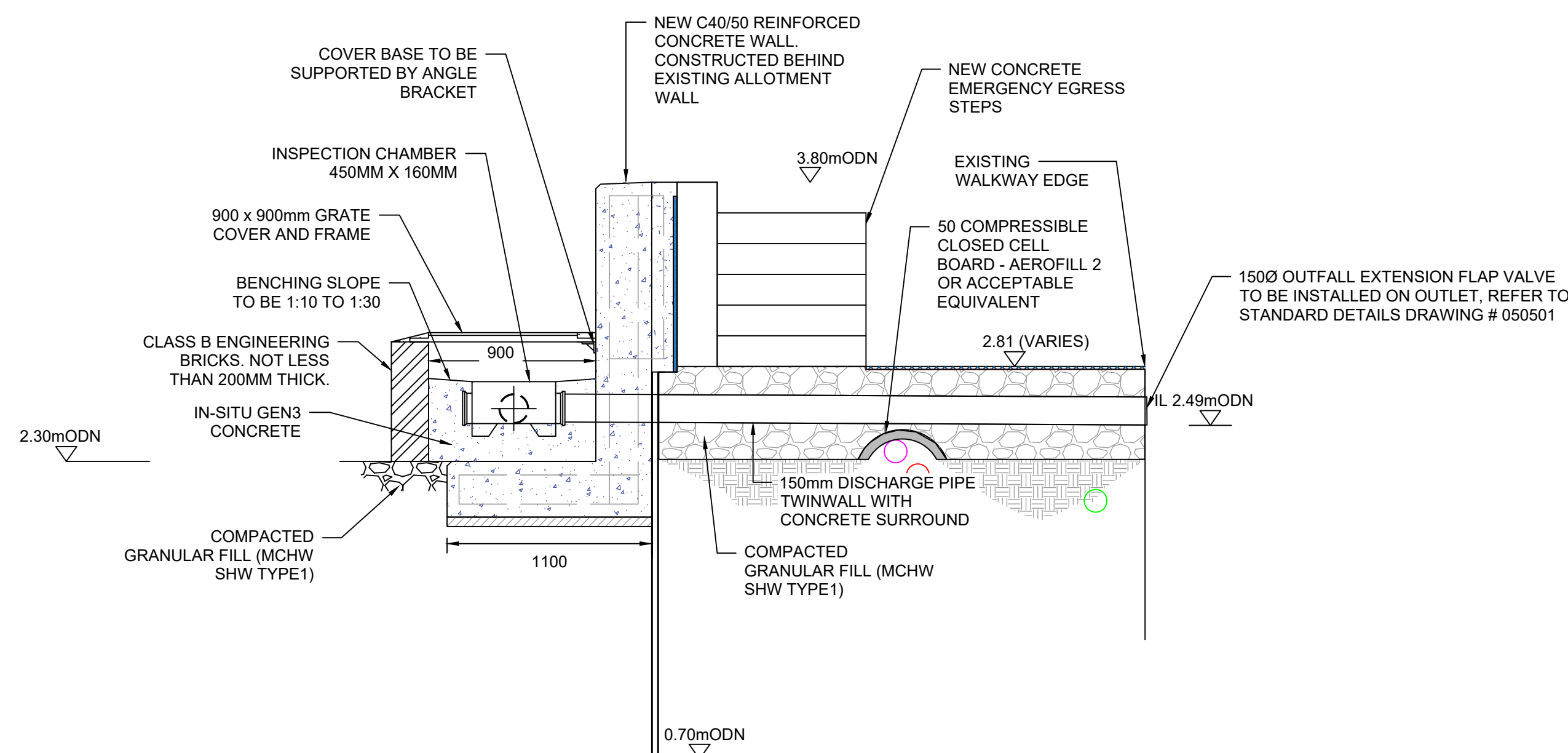
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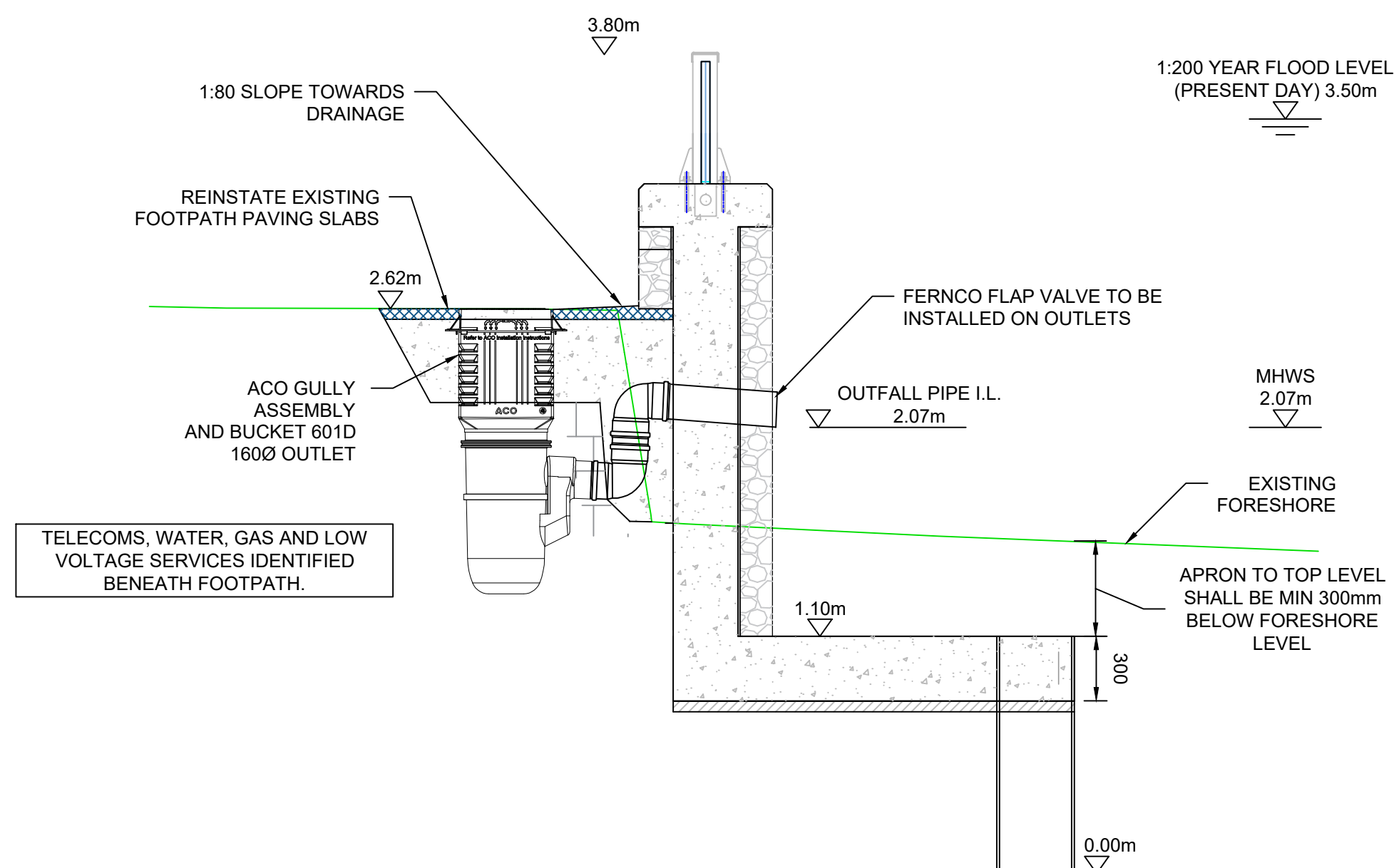
FRONTAGE 4
SURFACE WATER
DRAINAGE LONG SECTION
AND TYPICAL DETAILS

SHEET NUMBER

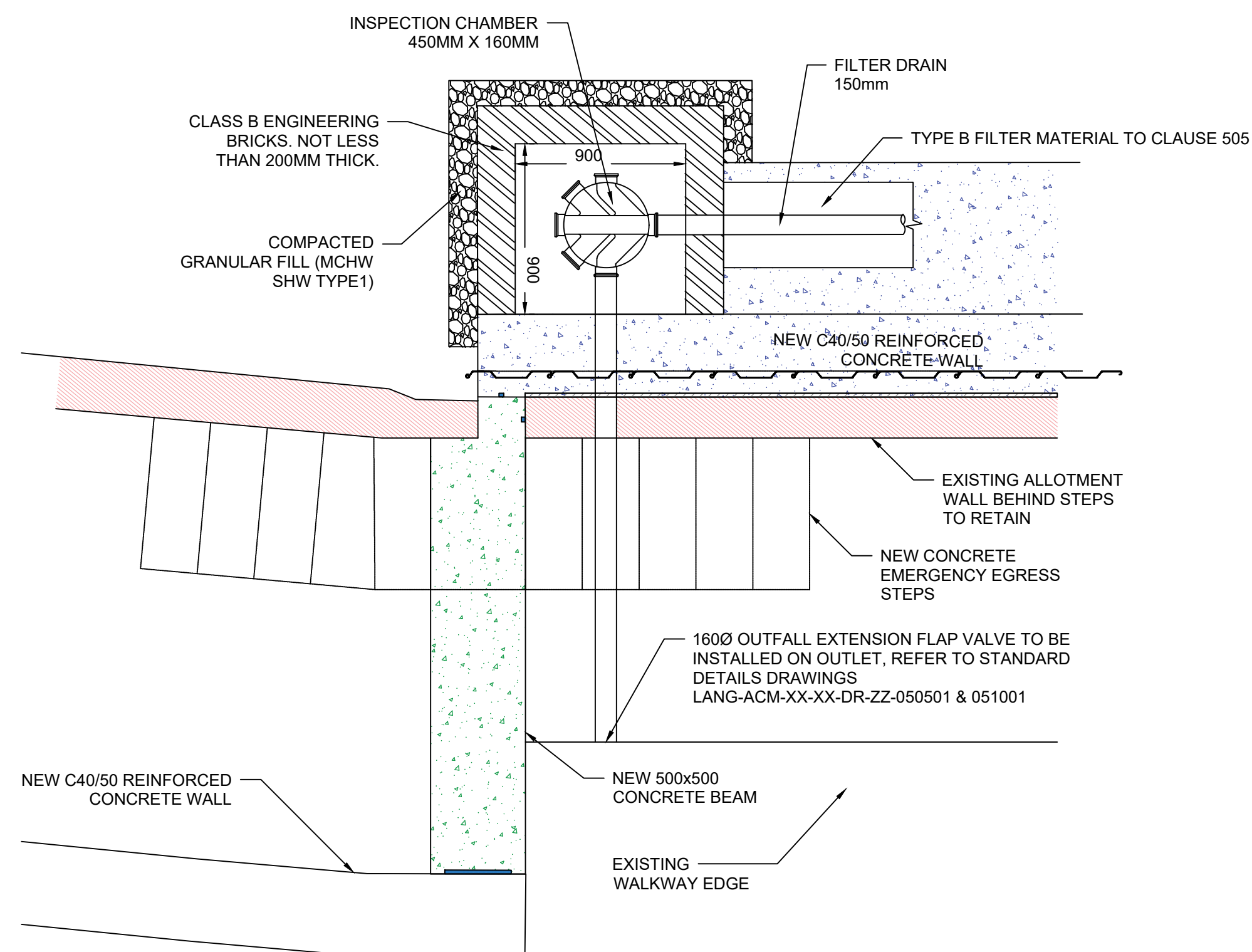
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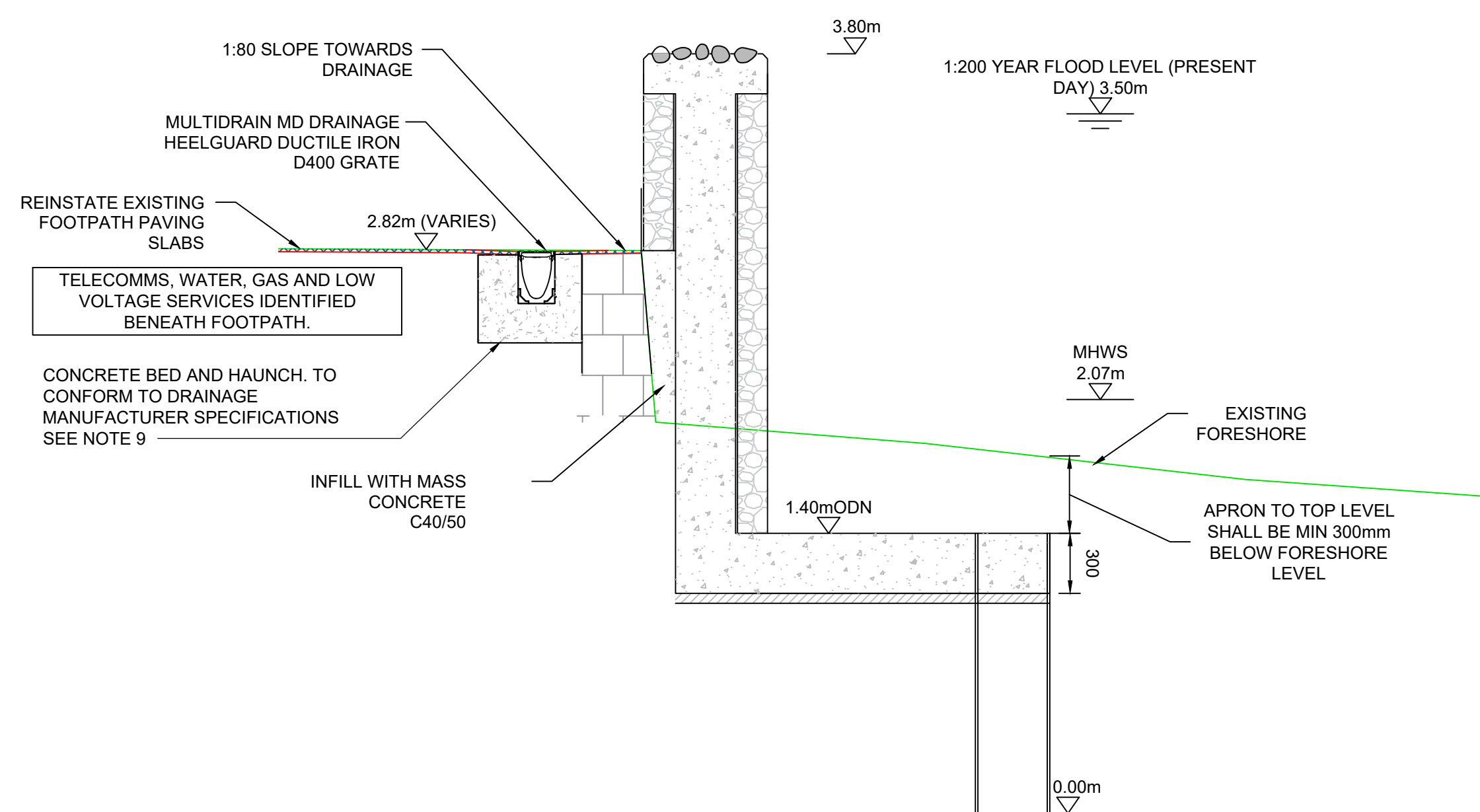
DETAIL A: INSPECTION CHAMBER: SECTION - CH82D



FRONTAGE 5 - TYPICAL GULLY OUTFALL DETAIL



DETAIL D: INSPECTION CHAMBER: PLAN - CH82D



FRONTAGE 5 - TYPICAL CHANNEL DRAIN DETAIL

SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F5-DR-ZZ-011501 FOR SHE INFORMATION.

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

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 - 7. ALSO REFER TO DRAWINGS:
 - FRONTAGE 5 DRAINAGE PLAN - 0110151
 - FRONTAGE 5 DRAINAGE LONG SECTION - 0120152

- DRAINAGE SPECIFIC NOTES**
- 1. DRAINAGE PROFILE TO FOLLOW GROUND PROFILE UNLESS OTHERWISE INDICATED**
 - 9. DRAINAGE INSTALLATION DETAILS REFER TO MANUFACTURER SPECIFICATIONS : 22000 ACO UNIVERSAL GULLY D400 PAVEMENT INSTALLATION REV B: 21825 ACO MULTIDRAIN M1500 10.0 CHANNEL INSTALLATION DETAIL REV F: 22000 ACO UNIVERSAL GULLY D400 PAVEMENT INSTALLATION REV B: 21825 ACO MULTIDRAIN M1500 10.0 CHANNEL INSTALLATION DETAIL REV F**
 - 10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVE TO ENSURE DRAINAGE IS MAINTAINED**
 - 11. A GAP IN THE SHEET PILE TOP LEVELS REQUIRED FOR INSTALLATION OF DRAINAGE OUTLETS**

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

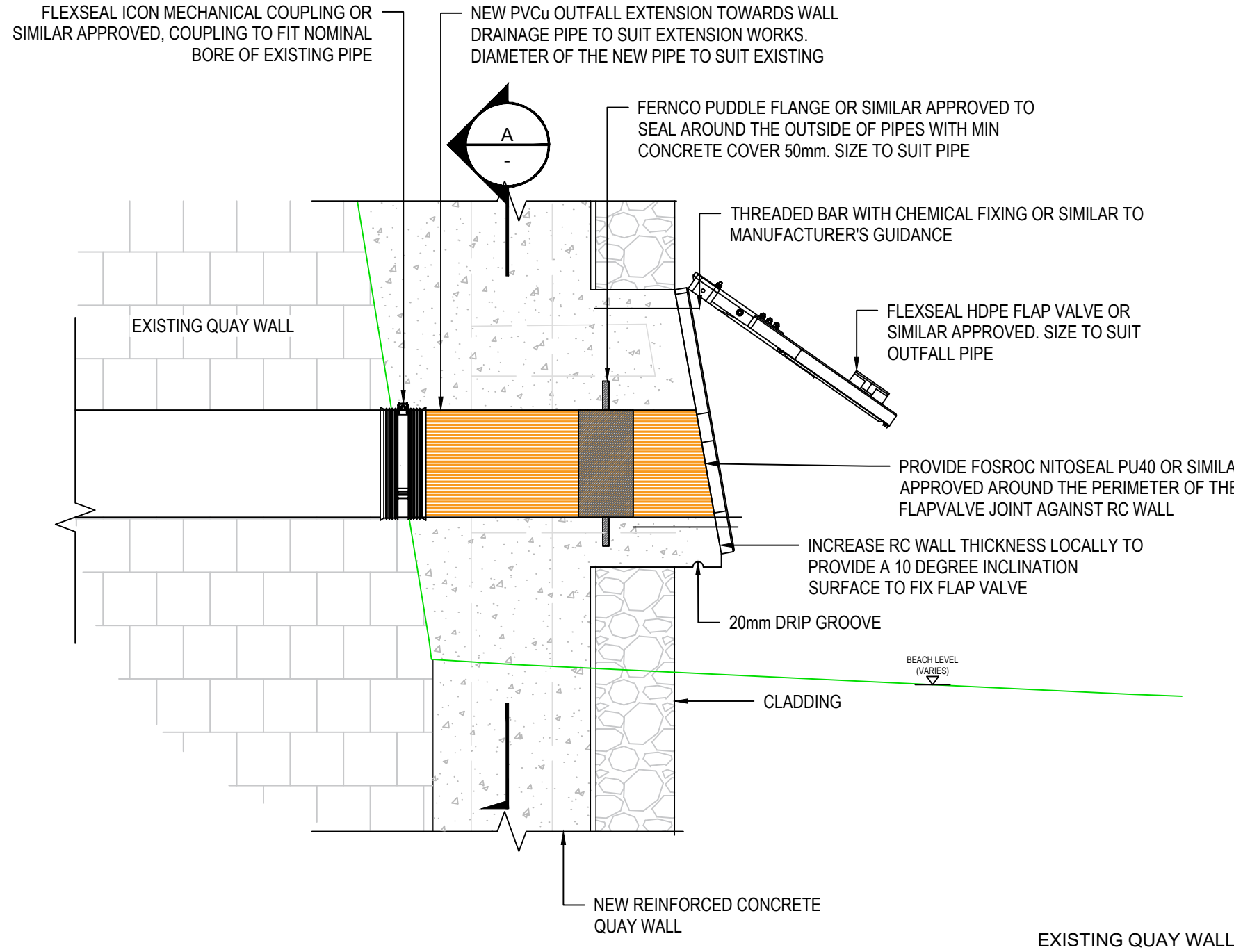
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SHEET TITLE

FRONTAGE 5 SURFACE WATER DRAINAGE TYPICAL DETAILS

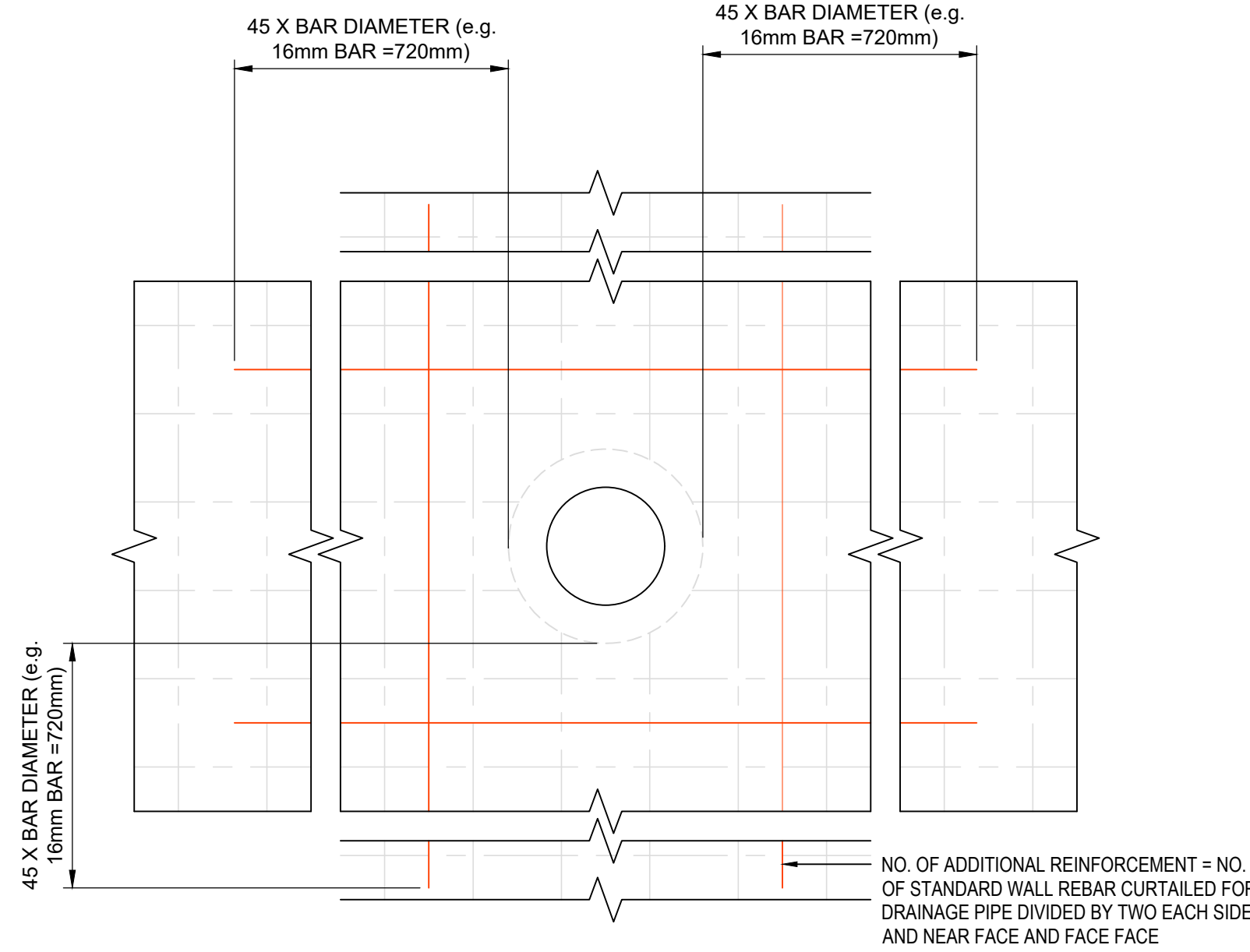
SHEET NUMBER

LANG-ACM-SW-F5-DR-ZZ-051054



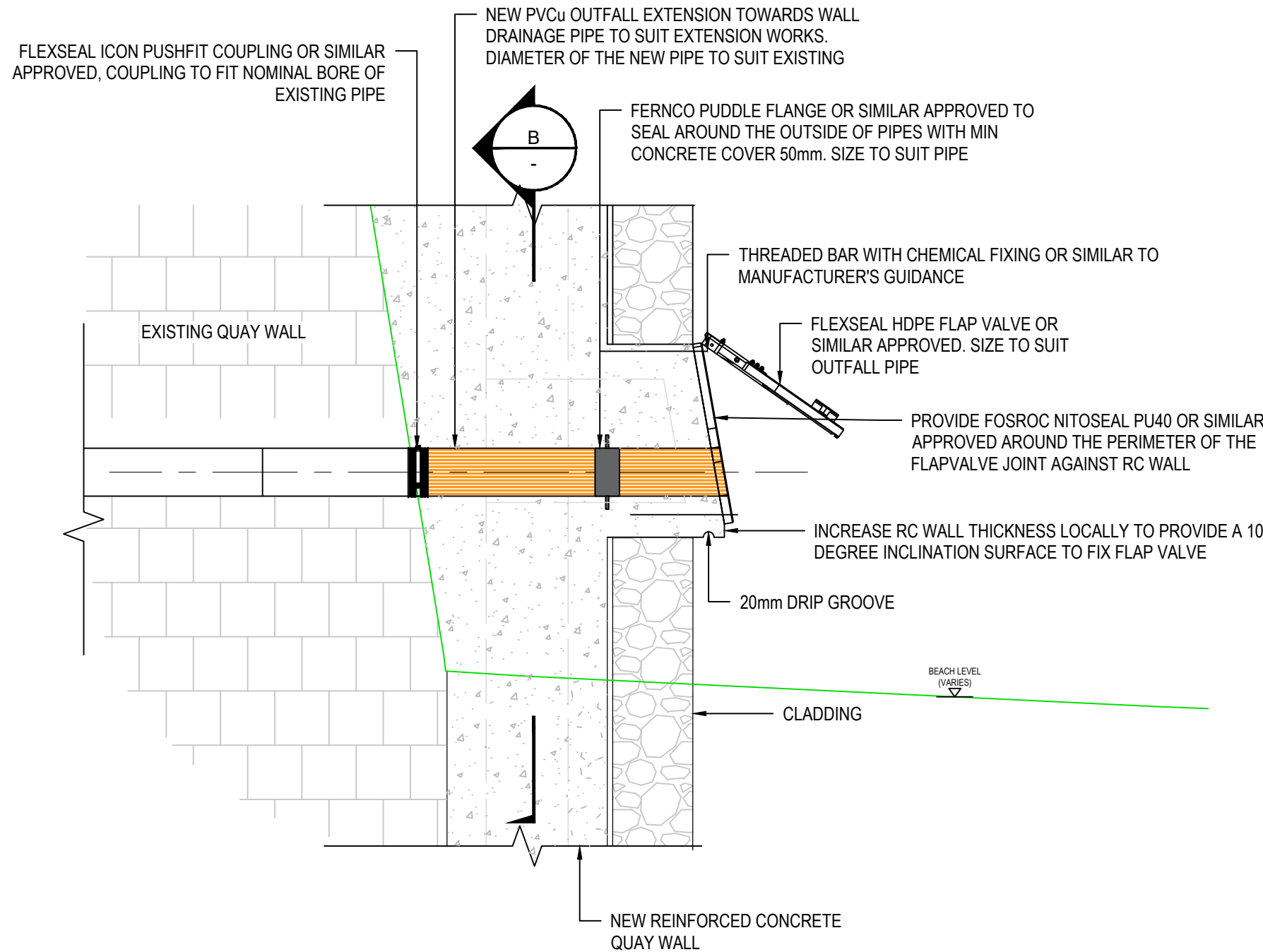
OUTFALL PIPE > 100mm DIA EXTENSION DETAIL

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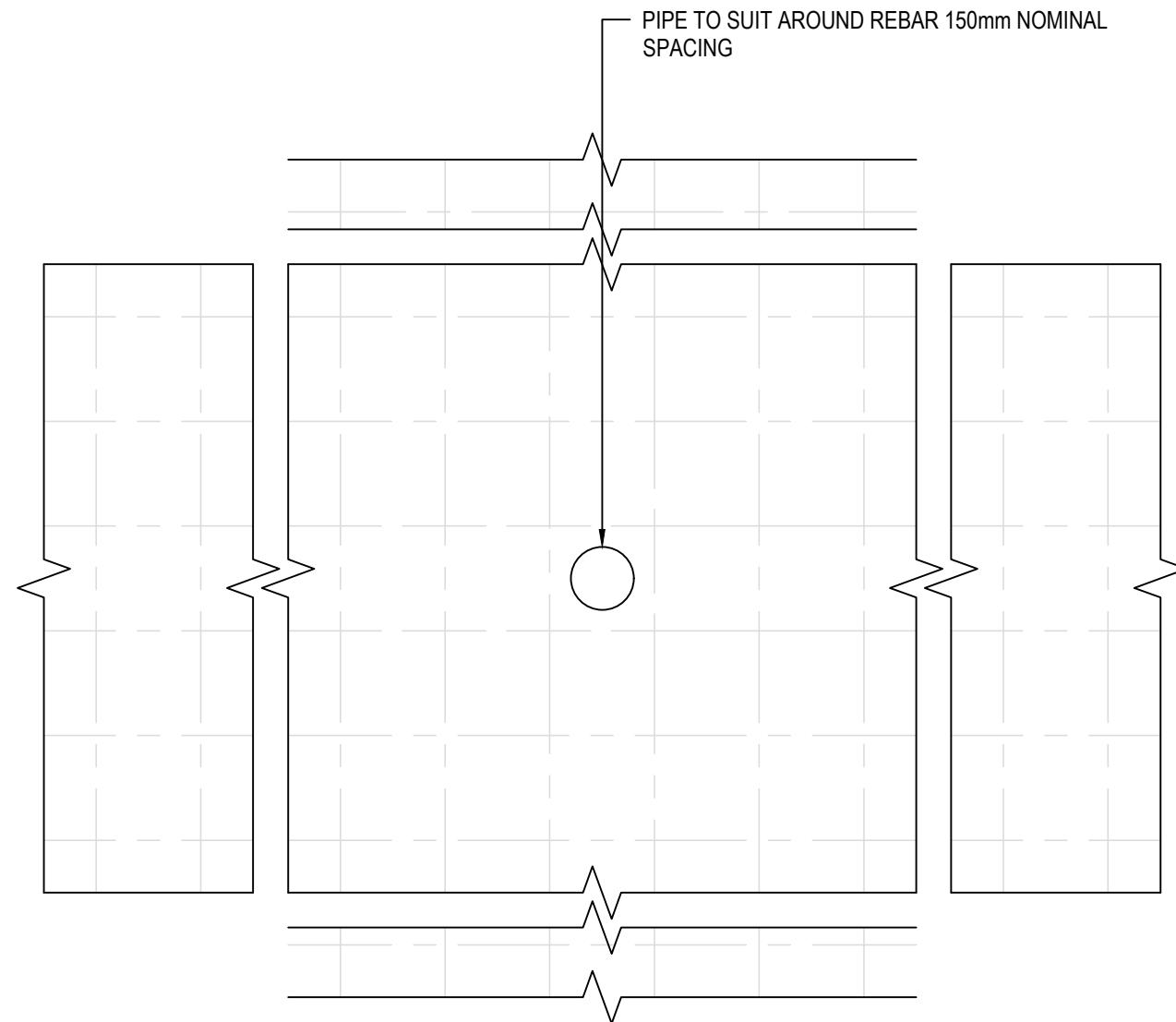
OUTFALL PIPE > 100mm DIA EXTENSION - RC CROSS SECTION A-A

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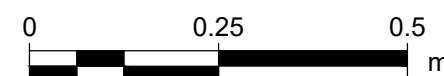
OUTFALL PIPE < 100mm DIA EXTENSION DETAIL

1:10



OUTFALL PIPE < 100mm DIA EXTENSION - RC CROSS SECTION B-B

1:10



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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

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 - ALSO REFER TO DRAWINGS:
SURFACE WATER DRAINAGE PLANS - ##1040 TO ##1055

DRAWING SPECIFIC NOTES

- PIPE COUPLING, PUDDLE FLANGE AND FLAP VALVE SHALL BE INSTALLED TO MANUFACTURER'S GUIDANCE.
- SEALANT SHALL BE APPLIED TO MANUFACTURER'S GUIDANCE.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
C01	21/11/23	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

EXISTING OUTFALL EXTENSION
STANDARD DETAILS

SHEET NUMBER

LANG-ACM-SW-ZZ-DR-ZZ-051064