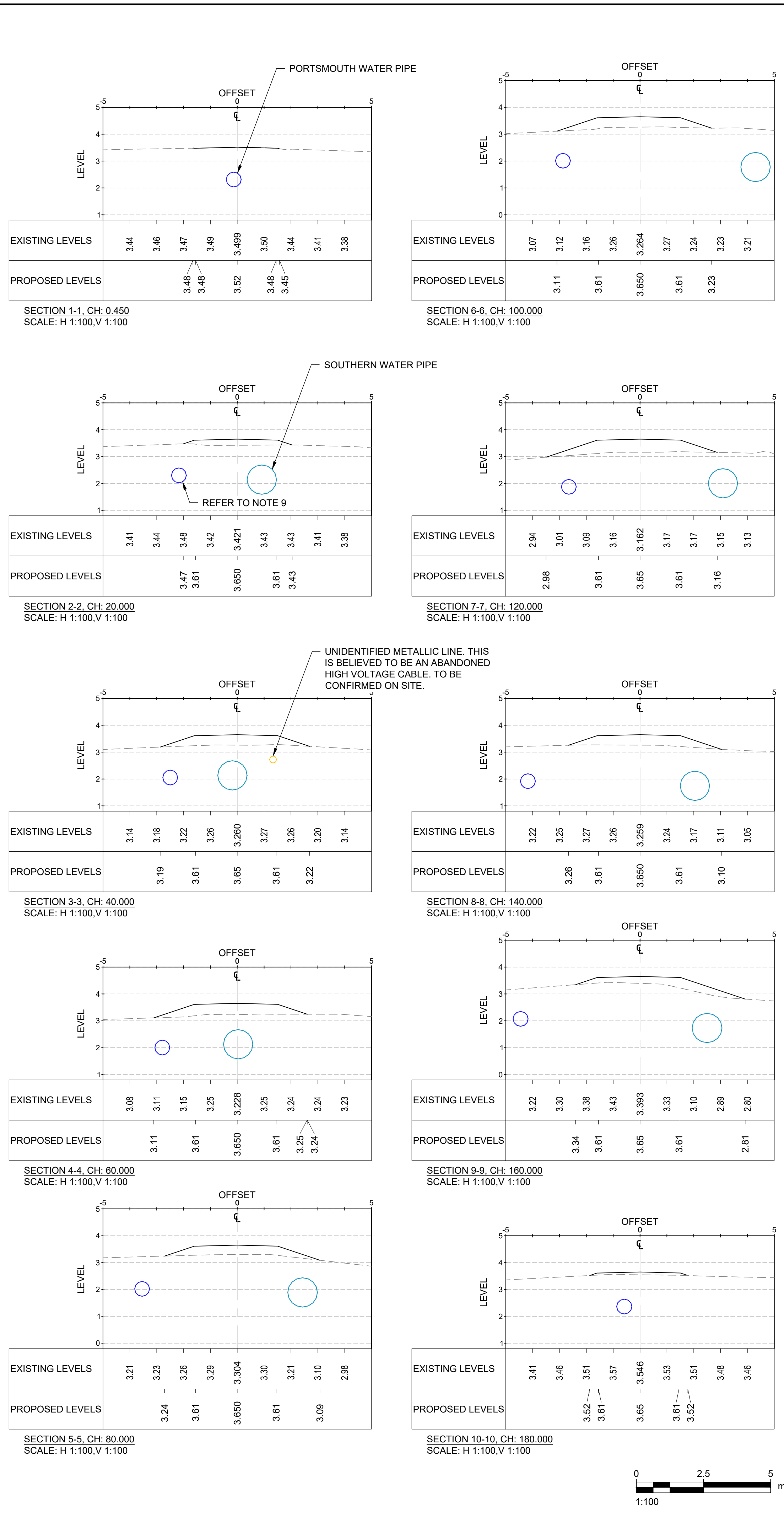
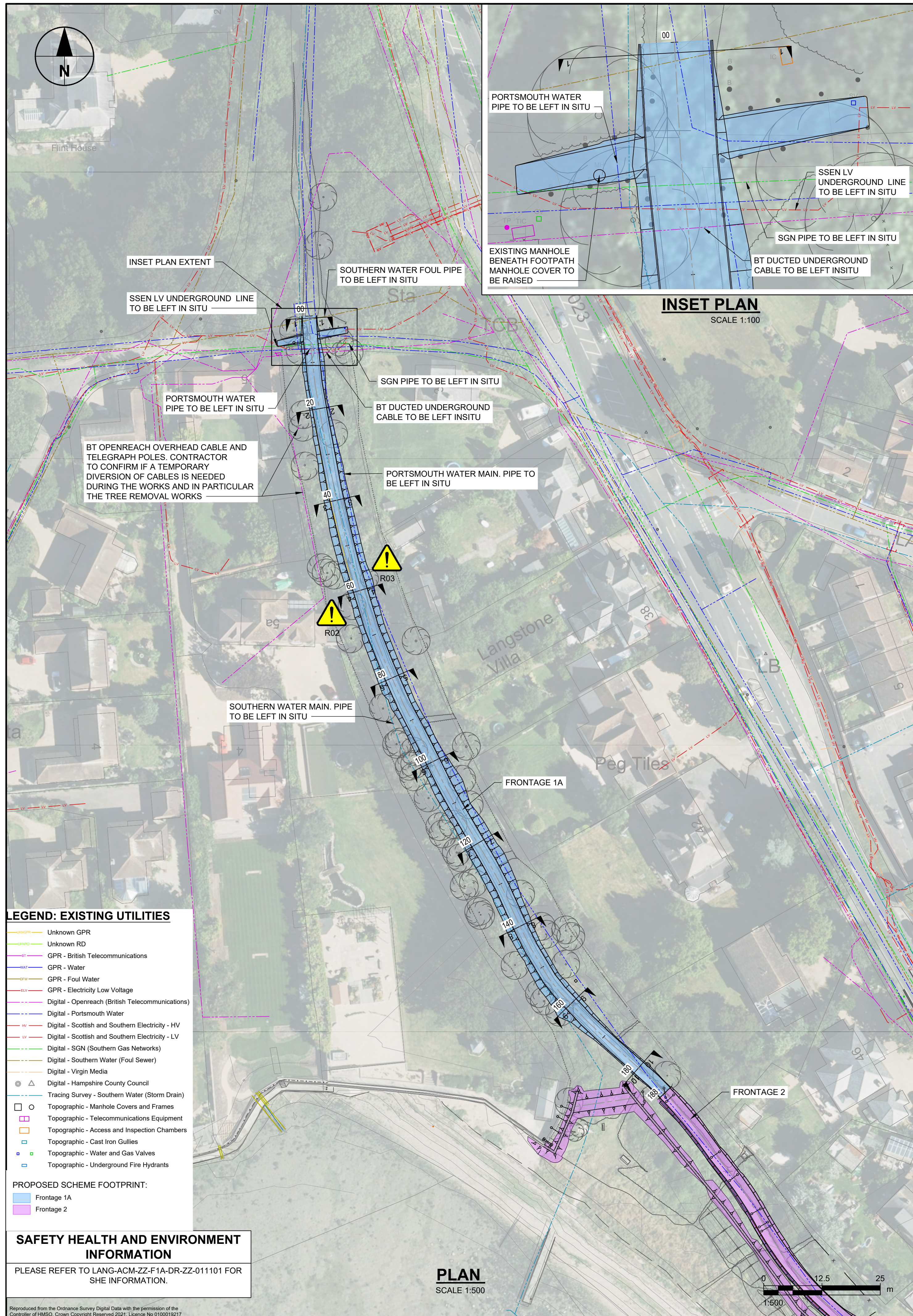




PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH
COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

NOTES

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3. ALL DIMENSIONS FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
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5. DEFENCE LENGTHXHEIGHT SHOWN ARE APPROXIMATE. THE EXACT EXCISE OF THE TYPICAL CROSS SECTION IS TO BE DETERMINED ON SITE WITH THE SUPERVISOR.
6. EXISTING PLANT LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARIES SPATIALLY AND WITH TIME.
7. THE DRAWING IS TO BE USED IN CONJUNCTION WITH THE DRPM (LANG-CAZ-ZZ-RK-ZR-002-00010) FOR ANY IDENTIFIED POTENTIAL RISKS.
8. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT #011011
TYPICAL DETAILS - #051103

8. DRAWING SPECIFIC NOTES
9. DEFENCE ALIGNMENT DRAWN USING A COMBINATION OF TOPOGRAPHICAL SURVEY DATA PROVIDED BY COASTAL PARTNERS
10. IDENTIFY ALL EXISTING DRAINAGE ACROSS FLOOD DEFENCE ALIGNMENT AND SEAL OR PROVIDE FLAP VALVES TO ENSURE DRAINAGE IS MAINTAINED.
11. THE SERVICE INFORMATION SHOWN HAS BEEN INFORMED BY DIGITAL MAPPING, GPR SURVEY, TOPOGRAPHICAL SURVEY, TRACING SURVEY AND CONVERSATIONS WITH UTILITY PROVIDERS. EXACT POSITIONS OF EXISTING SURVEYS IS TO BE CONFIRMED ON SITE PRIOR TO WORKS COMMENCING. SOME LINES ARE KNOWN TO BE ABANDONED SEE ASSET REGISTER FOR DETAILS.
12. CONSULTOR TO WORK WITH LOCAL AUTHORITY FOR GUIDANCE FOR ALL UTILITY PROVISIONS AND DIVERSION WORKS.

ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	Construction Issue
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN



PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 1A MODEL SECTIONS AND EXISTING UTILITIES

SHEET NUMBER

LANG-ACM-ZZ-F1A-DR-ZZ-031102

SAFETY HEALTH AND ENVIRONMENT INFORMATION

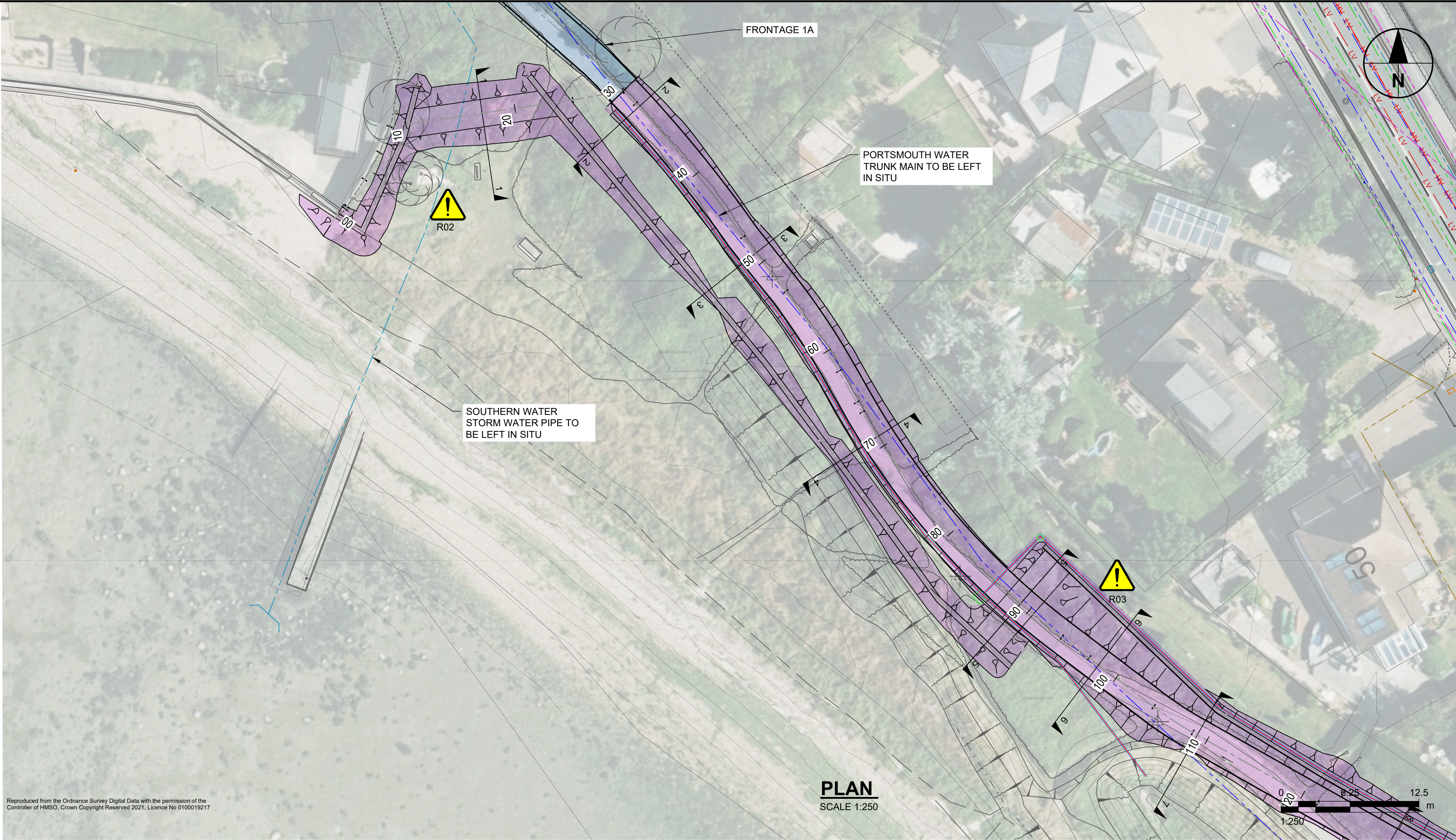
PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION.

LEGEND: EXISTING UTILITIES

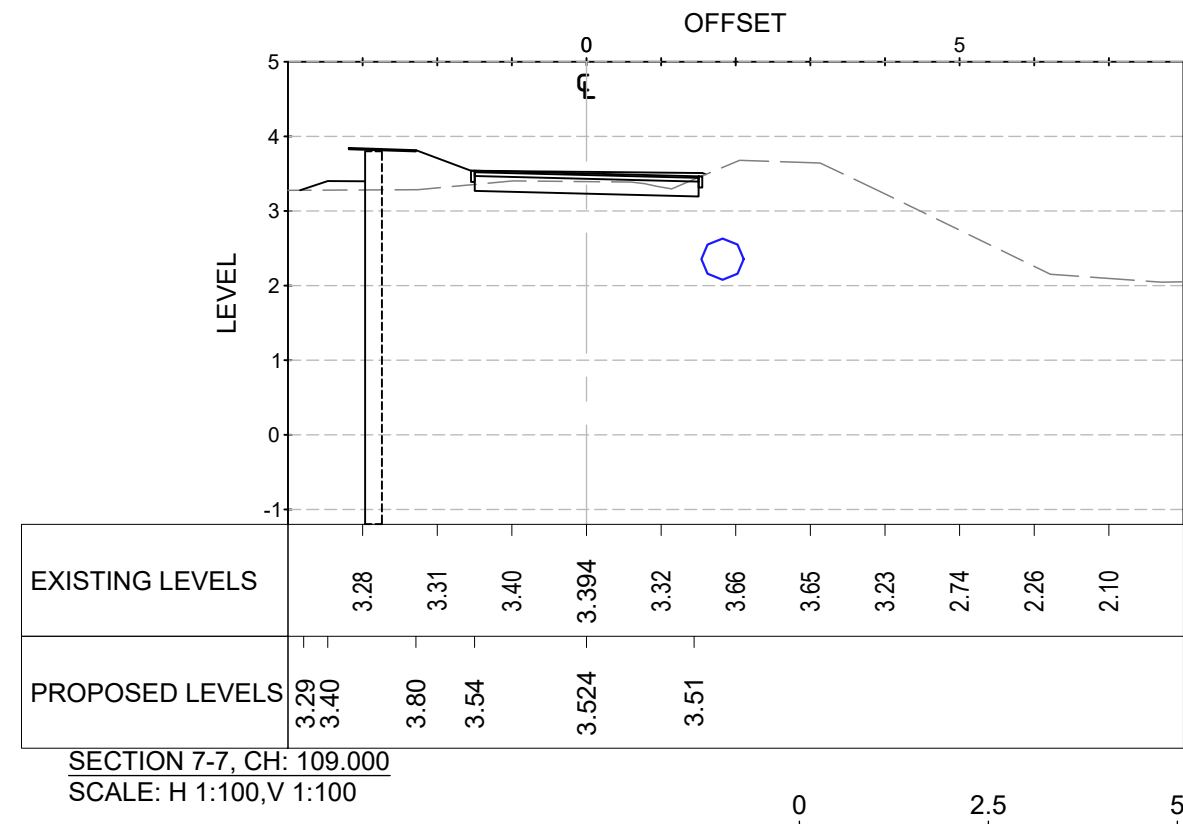
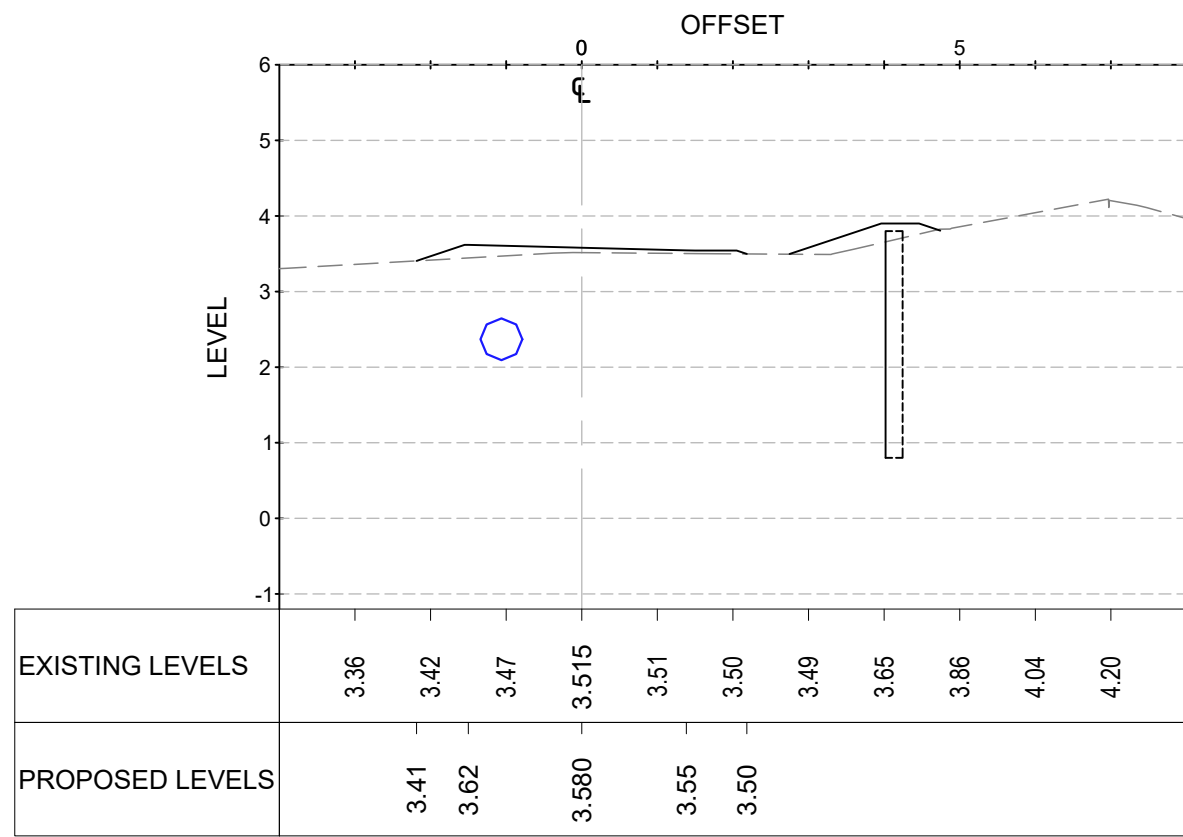
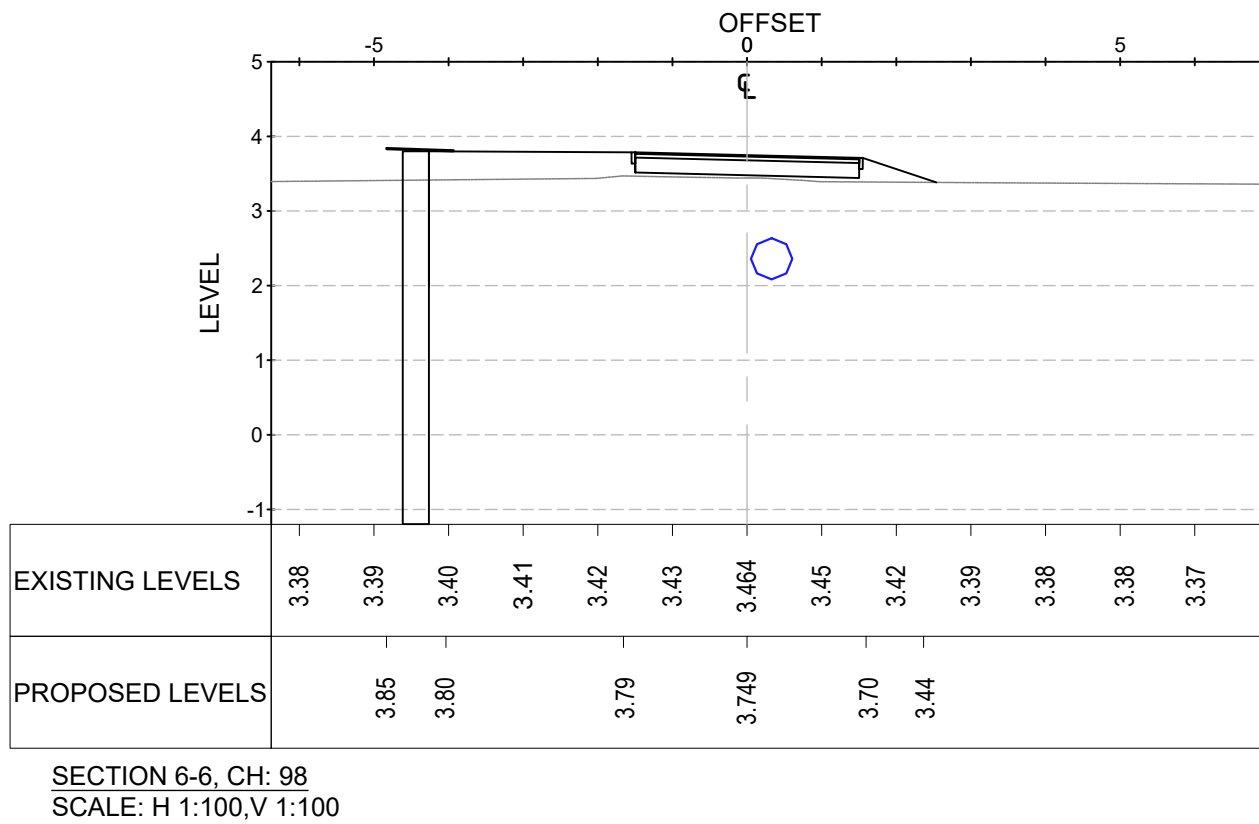
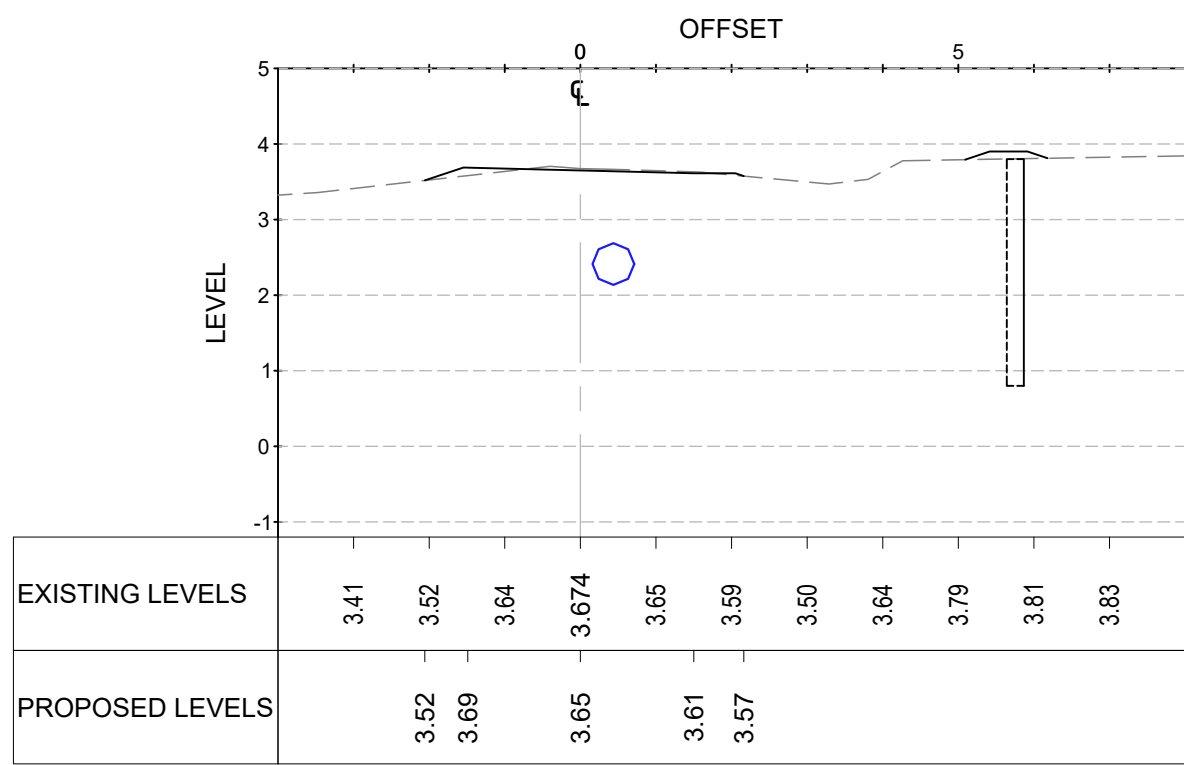
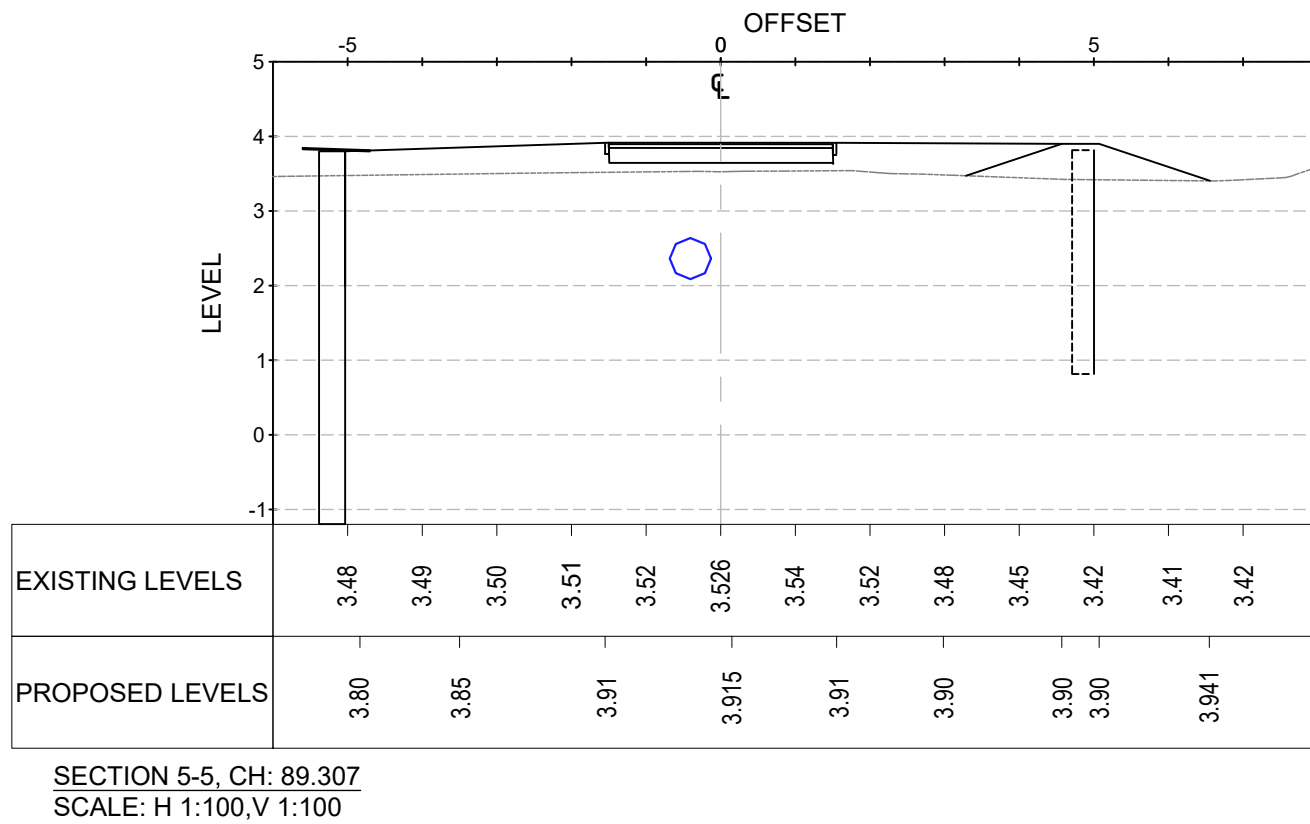
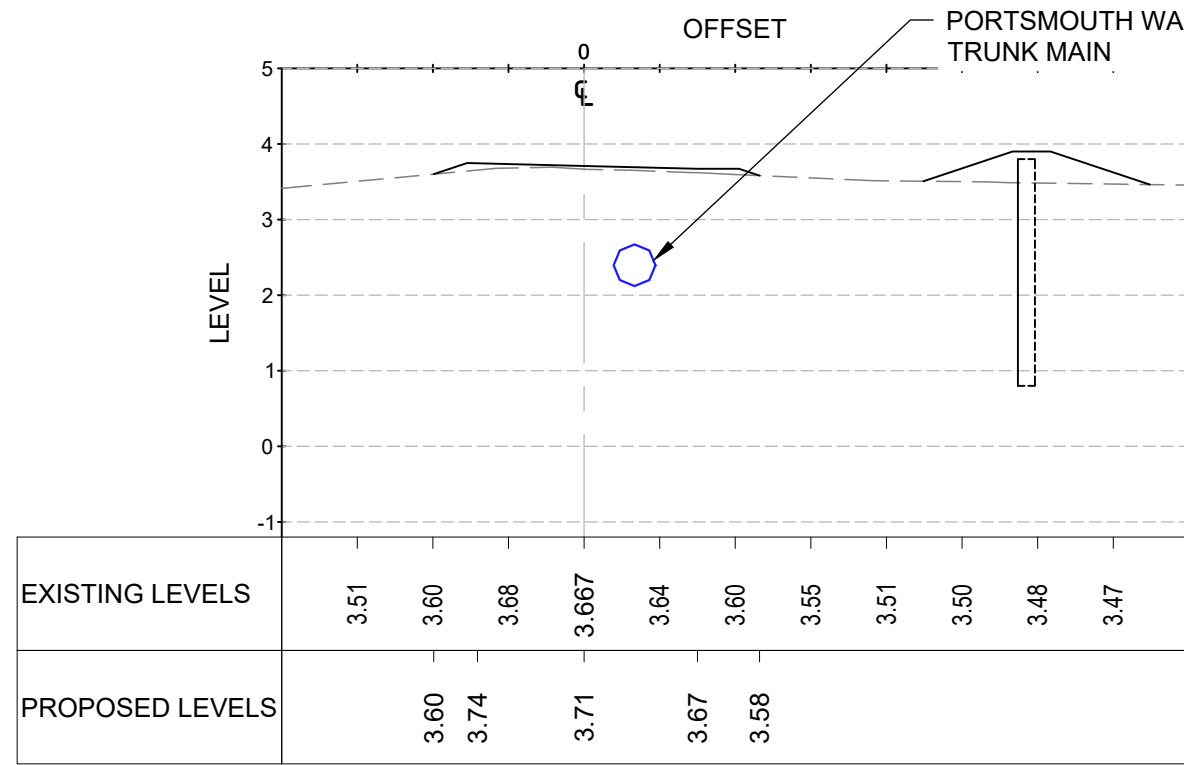
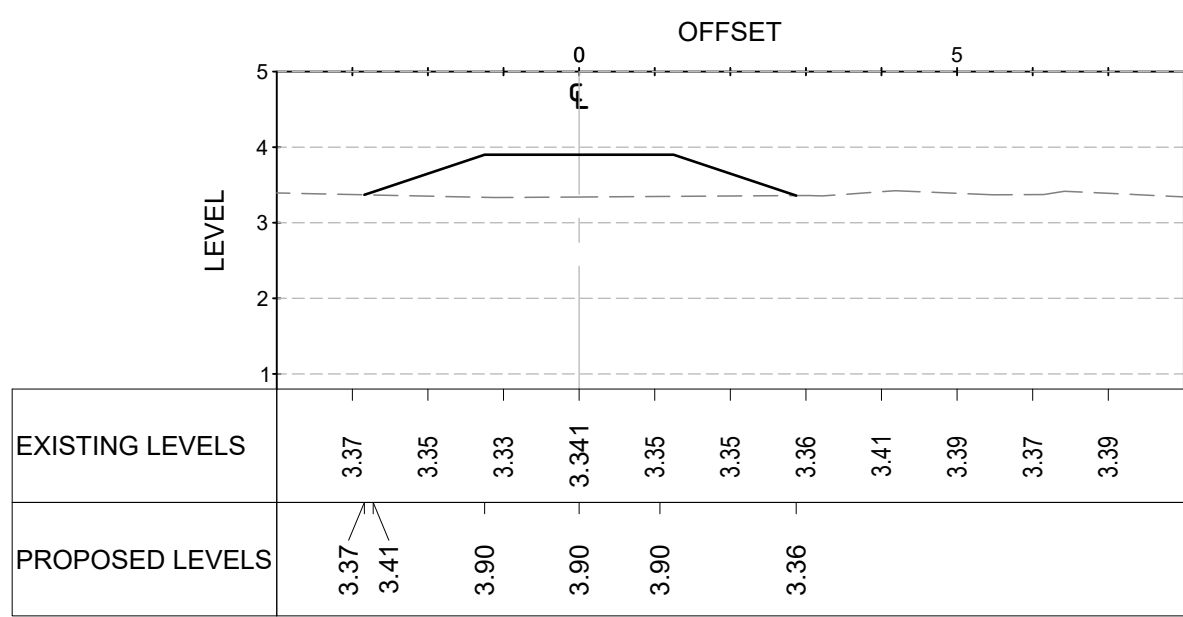
- Unknown GPR
- Unknown RD
- GPR - British Telecommunications
- GPR - Water
- GPR - Foul Water
- GPR - Electricity Low Voltage
- Digital - Openreach (British Telecommunications)
- Digital - Portsmouth Water
- Digital - Scottish and Southern Electricity - HV
- Digital - Scottish and Southern Electricity - LV
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- Digital - Virgin Media
- Digital - Hampshire County Council
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- Topographic - Manhole Covers and Frames
- Topographic - Telecommunications Equipment
- Topographic - Access and Inspection Chambers
- Topographic - Cast Iron Gullies
- Topographic - Water and Gas Valves
- Topographic - Underground Fire Hydrants

PROPOSED SCHEME FOOTPRINT:

- Frontage 1A
- Frontage 2



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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
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GENERAL ARRANGEMENT - #011201
MODEL CROSS SECTIONS - #031202 TO #031203
TYPICAL DETAILS - #051204 TO #051206
DRAINAGE - #01041 TO #01043
 - DRAWING SPECIFIC NOTES
 - DEFENCE ALIGNMENT DRAWN USING A COMBINATION OF TOPOGRAPHICAL SURVEY DATA PROVIDED BY COASTAL PARTNERS.
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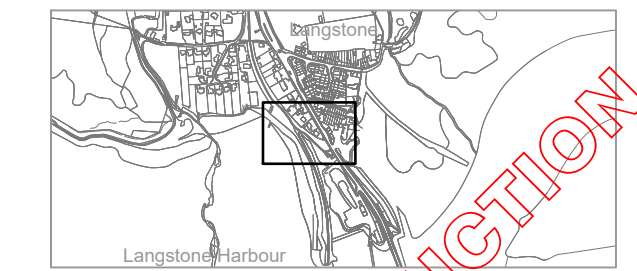
ISSUE/REVISION

ISSUE/REVISION		
P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
P03	28/01/25	DRAFT
C02	28/01/25	FOR PLANNING
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN



PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 2
MODEL SECTIONS
AND EXISTING UTILITIES
SHEET 1

SHEET NUMBER

LANG-ACM-ZZ-F2-DR-ZZ-031202

SAFETY HEALTH AND ENVIRONMENT INFORMATION

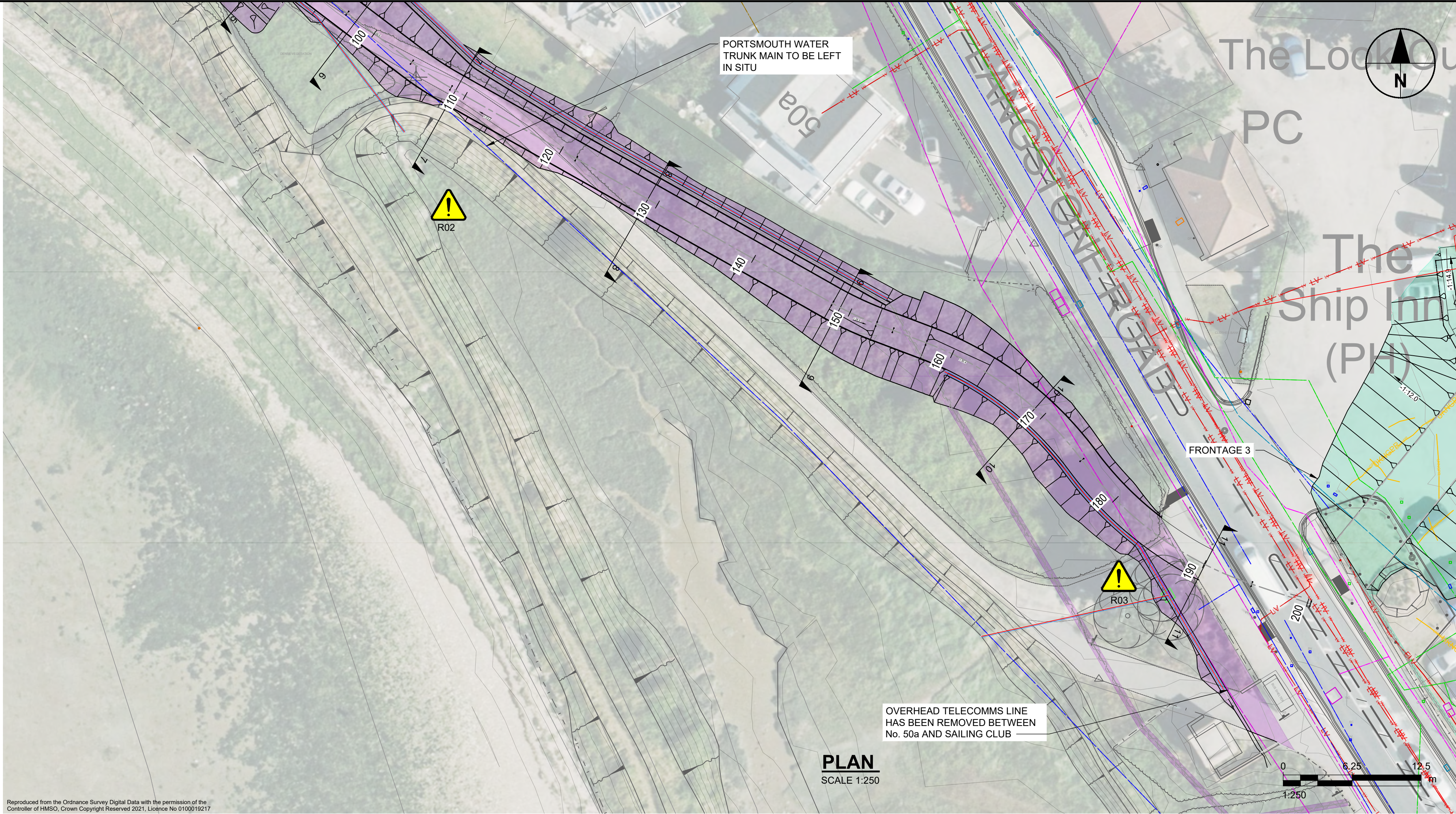
PLEASE REFER TO LANG-ACM-ZZ-F2-DR-ZZ-011201 FOR SHE INFORMATION.

LEGEND: EXISTING UTILITIES

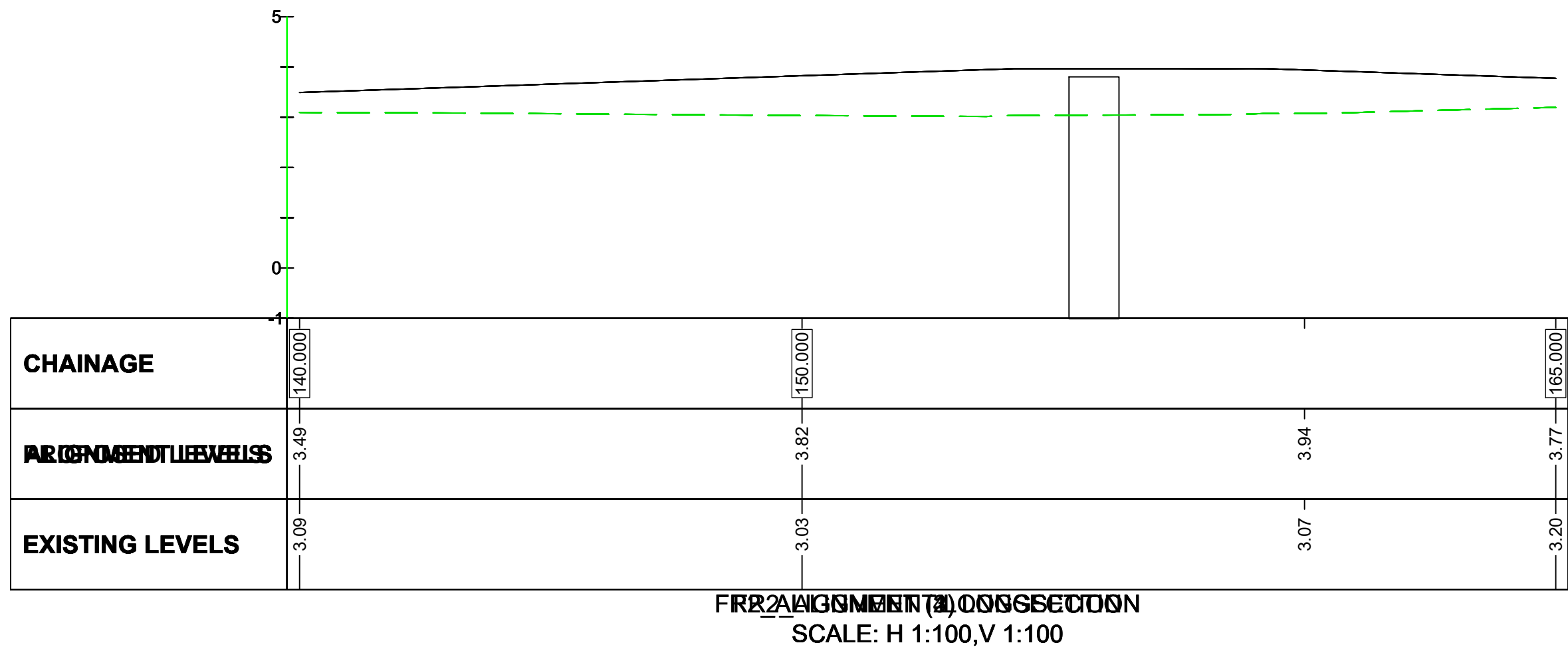
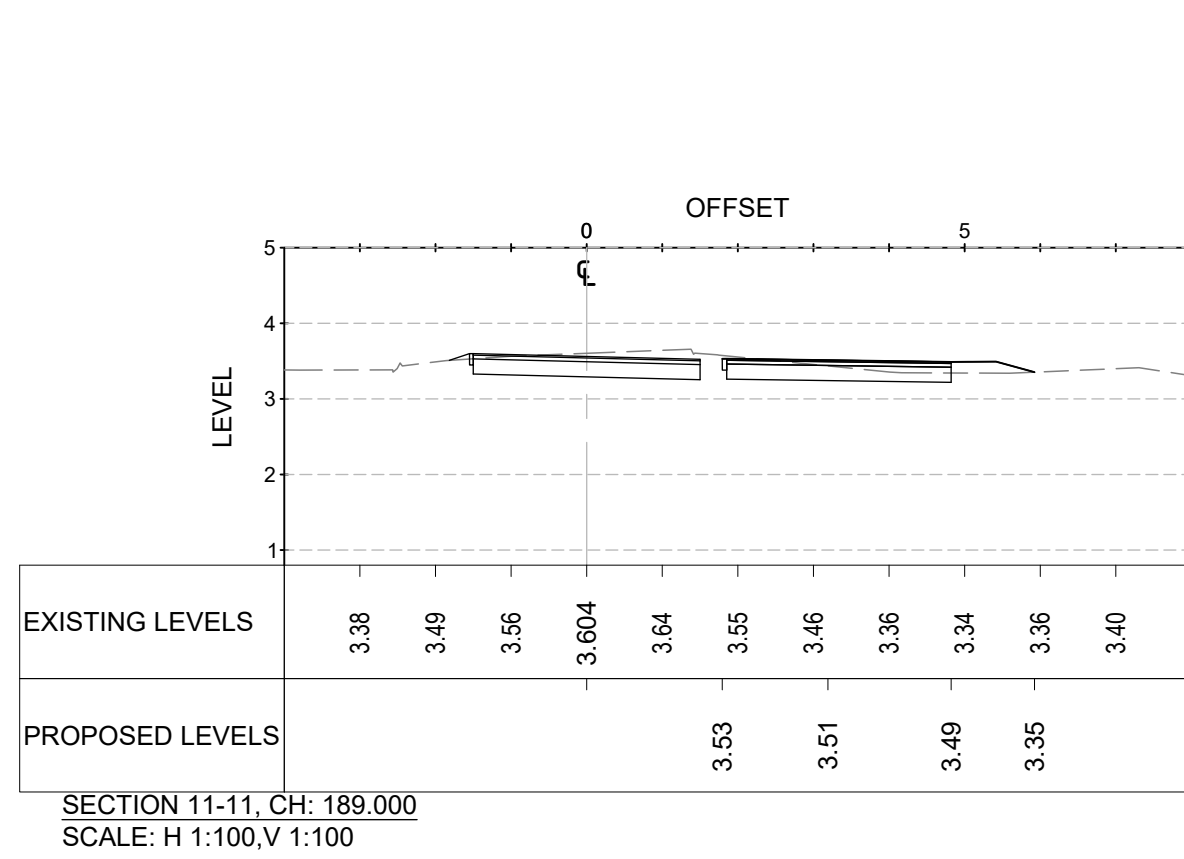
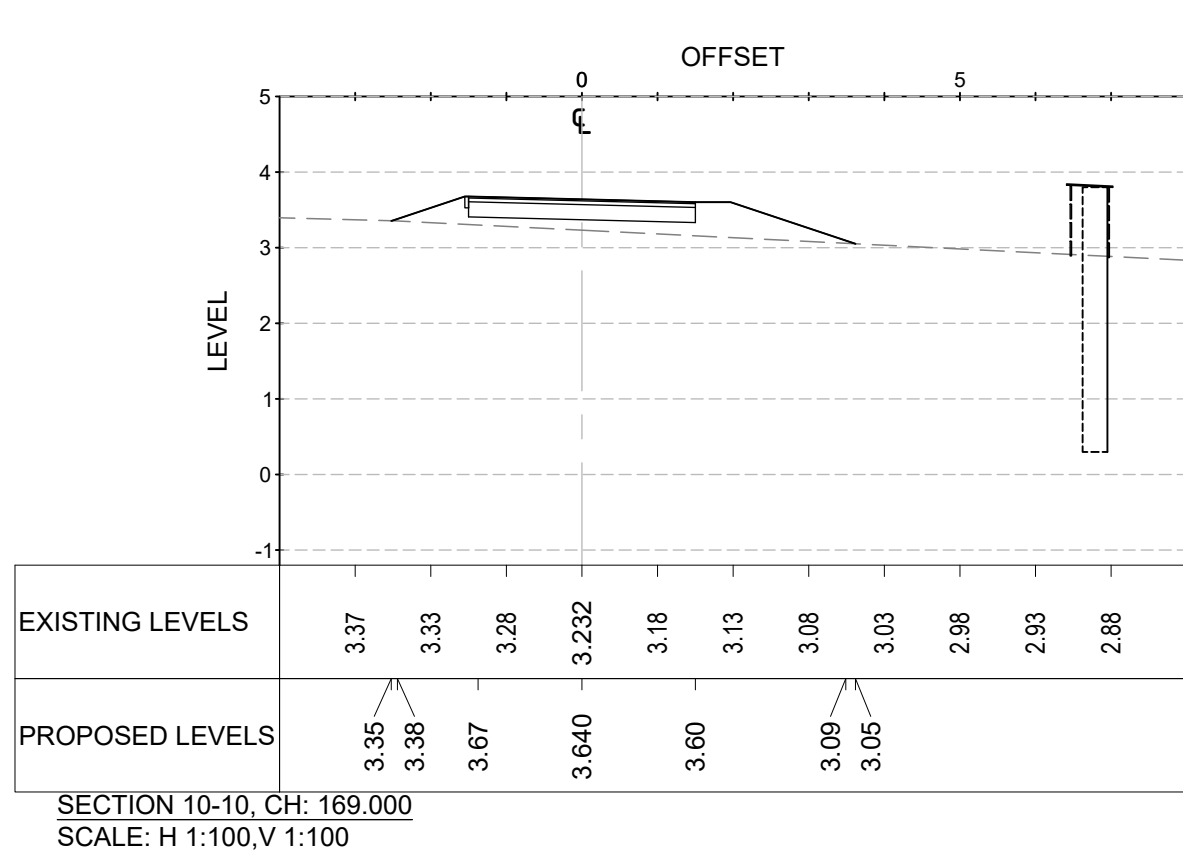
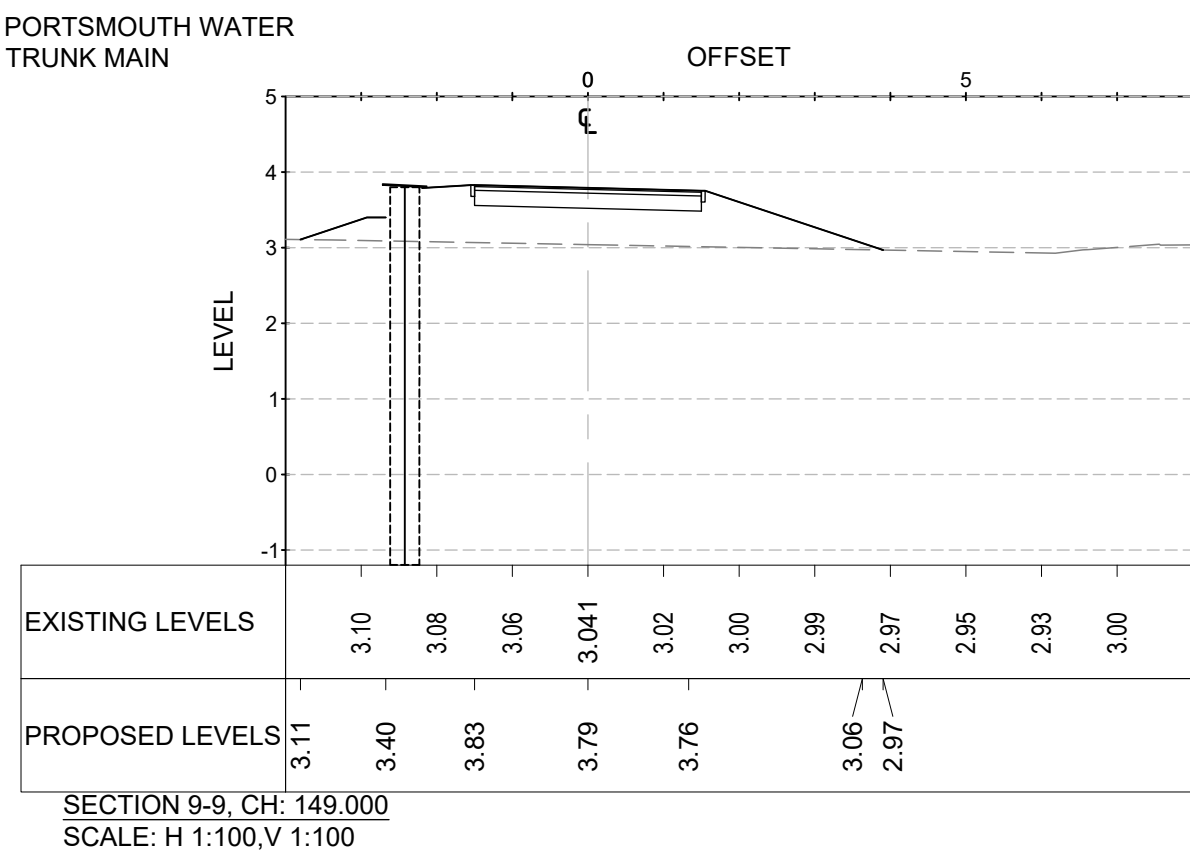
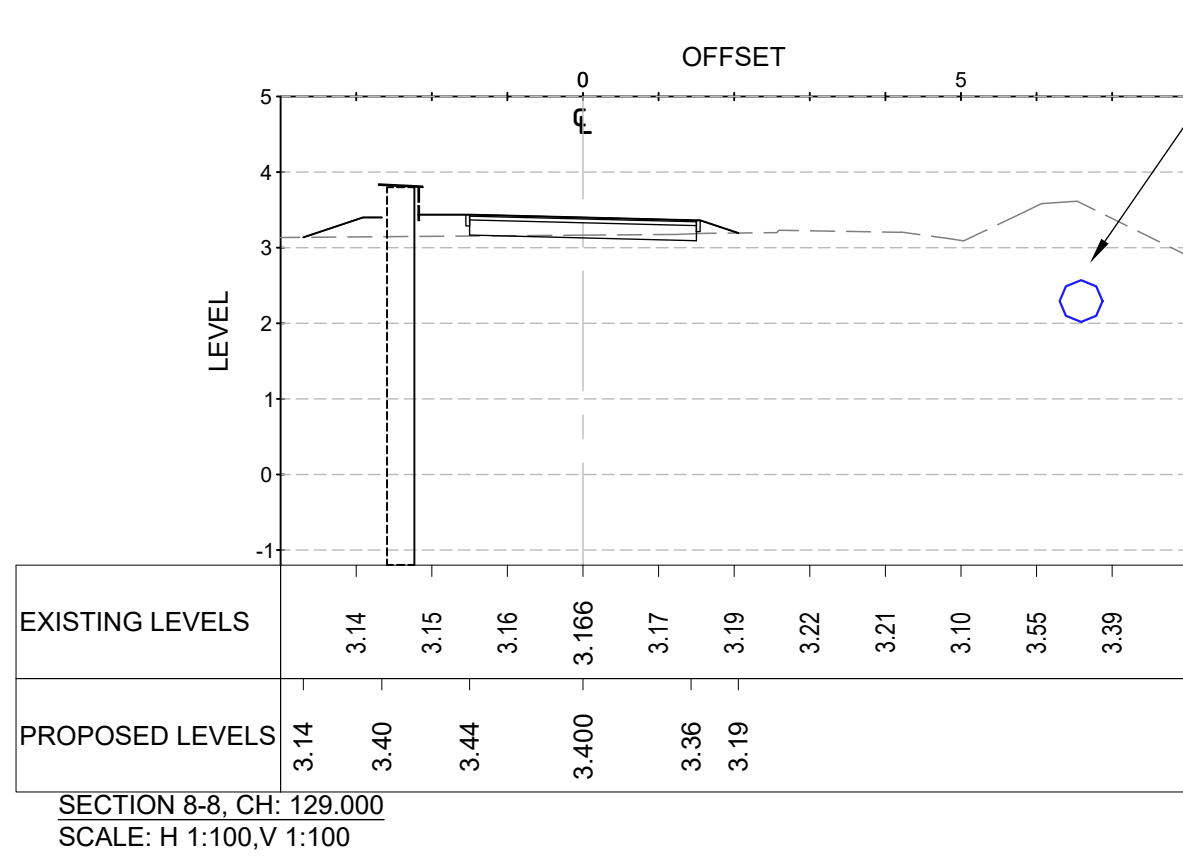
- Unknown GPR
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- GPR - Water
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PROPOSED SCHEME FOOTPRINT:

- Frontage 1A
- Frontage 2
- Frontage 3



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AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

AECOM
Midpoint, Alençon Link,
Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

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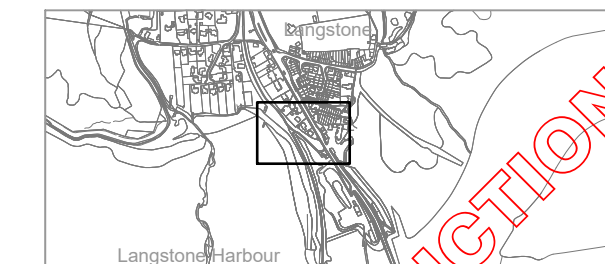
ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
P03	28/01/25	DRAFT
C02	28/01/25	FOR PLANNING
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN



PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 2
MODEL SECTIONS
AND EXISTING UTILITIES
SHEET 2

SHEET NUMBER

LANG-ACM-ZZ-F2-DR-ZZ-031203

LEGEND: EXISTING UTILITIES

Unknown GPR

Unknown RD

GPR - British Telecommunications

GPR - Water

GPR - Foul Water

GPR - Electricity Low Voltage

Digital - Openreach (British Telecommunications)

Digital - Portsmouth Water

Digital - Scottish and Southern Electricity - HV

Digital - Scottish and Southern Electricity - LV

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Digital - Hampshire County Council

Tracing Survey - Southern Water (Storm Drain)

Topographic - Manhole Covers and Frames

Topographic - Telecommunications Equipment

Topographic - Access and Inspection Chambers

Topographic - Cast Iron Gullies

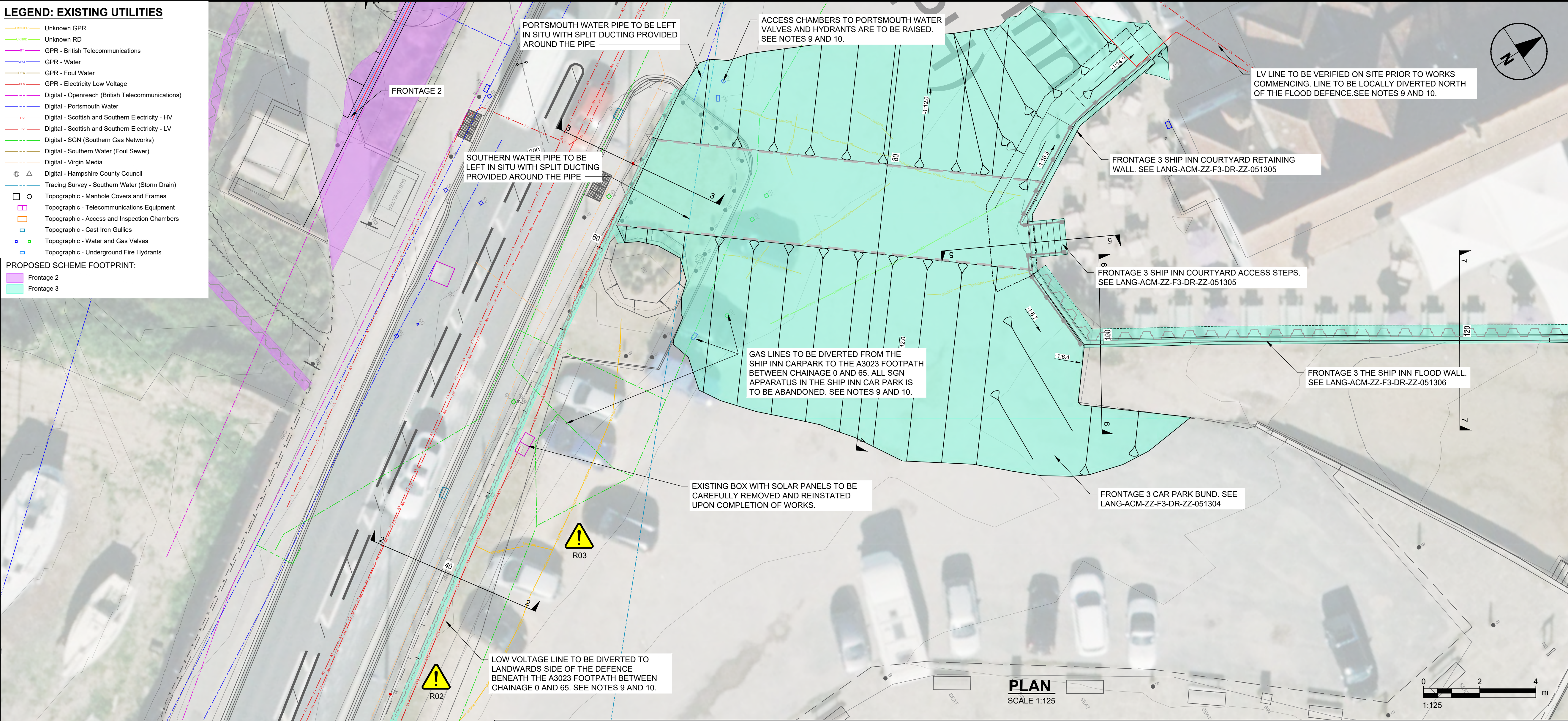
Topographic - Water and Gas Valves

Topographic - Underground Fire Hydrants

PROPOSED SCHEME FOOTPRINT:

Frontage 2

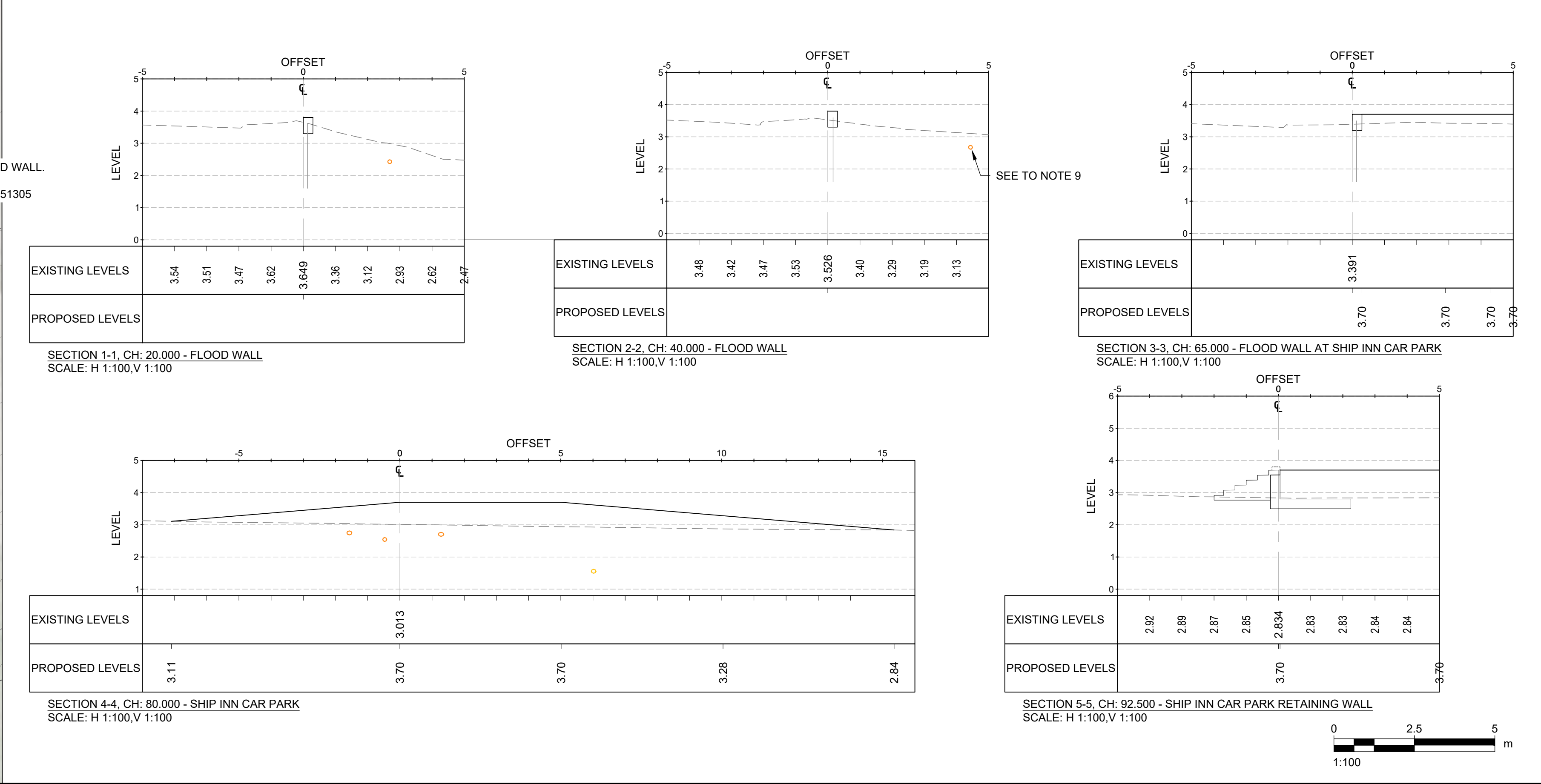
Frontage 3



SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F3-DR-ZZ-011301 FOR SHE INFORMATION.

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PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

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Basingstoke, Hampshire,
RG21 7PP
T:
www.aecom.com

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7. ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011301
TYPICAL DETAILS - #051304 TO #051306
REBAR DETAILS - #081930 TO ##

DRAWING SPECIFIC NOTES

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ISSUE/REVISION

P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 3
MODEL SECTIONS
AND EXISTING UTILITIES
SHEET 1

SHEET NUMBER

LANG-ACM-ZZ-F3-DR-ZZ-031302

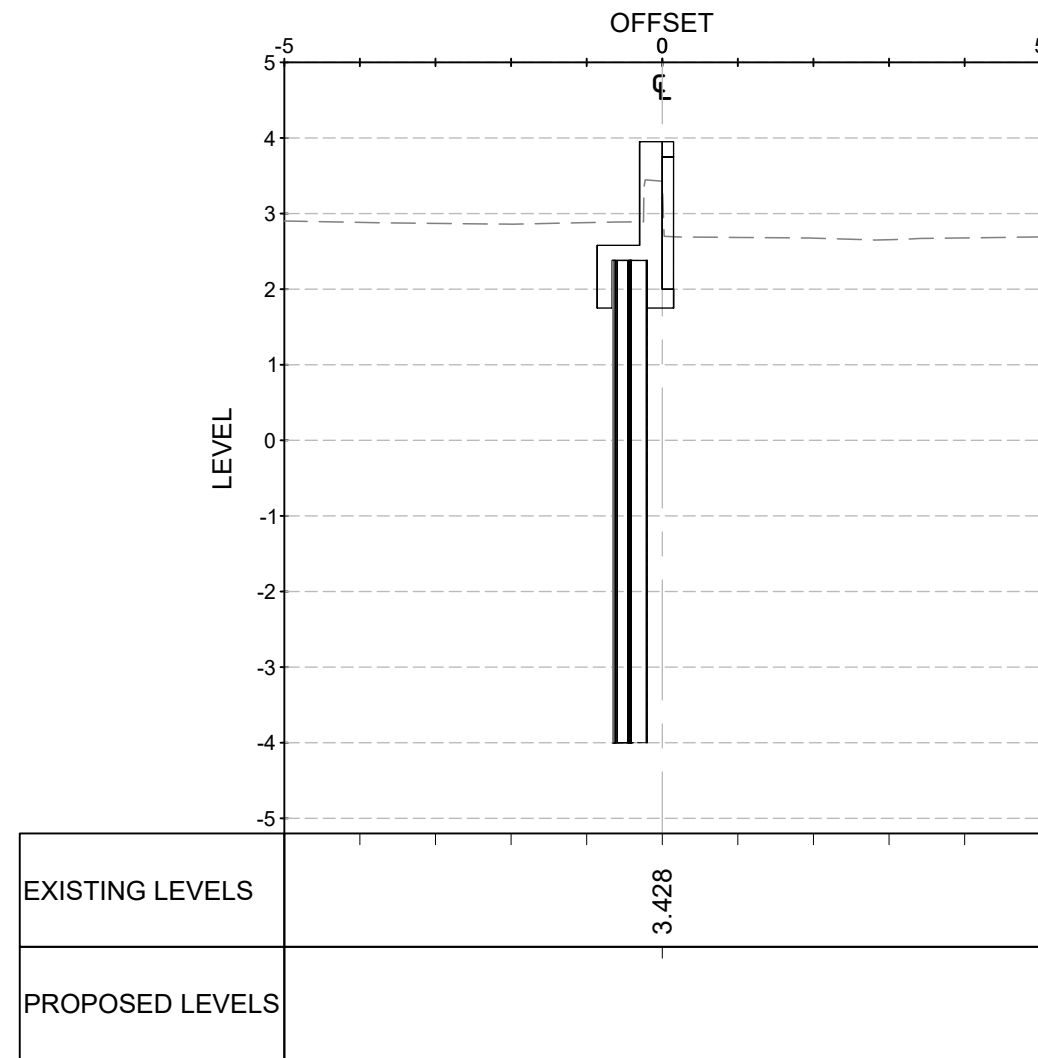
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Project Management Initials: Designer: HR
Revision: C01
Checked: CP
Approved: JScott
Drawn: KG
Last saved by: KEVIN GABB(2024.03.12) Last Plotted: 2024.03.13
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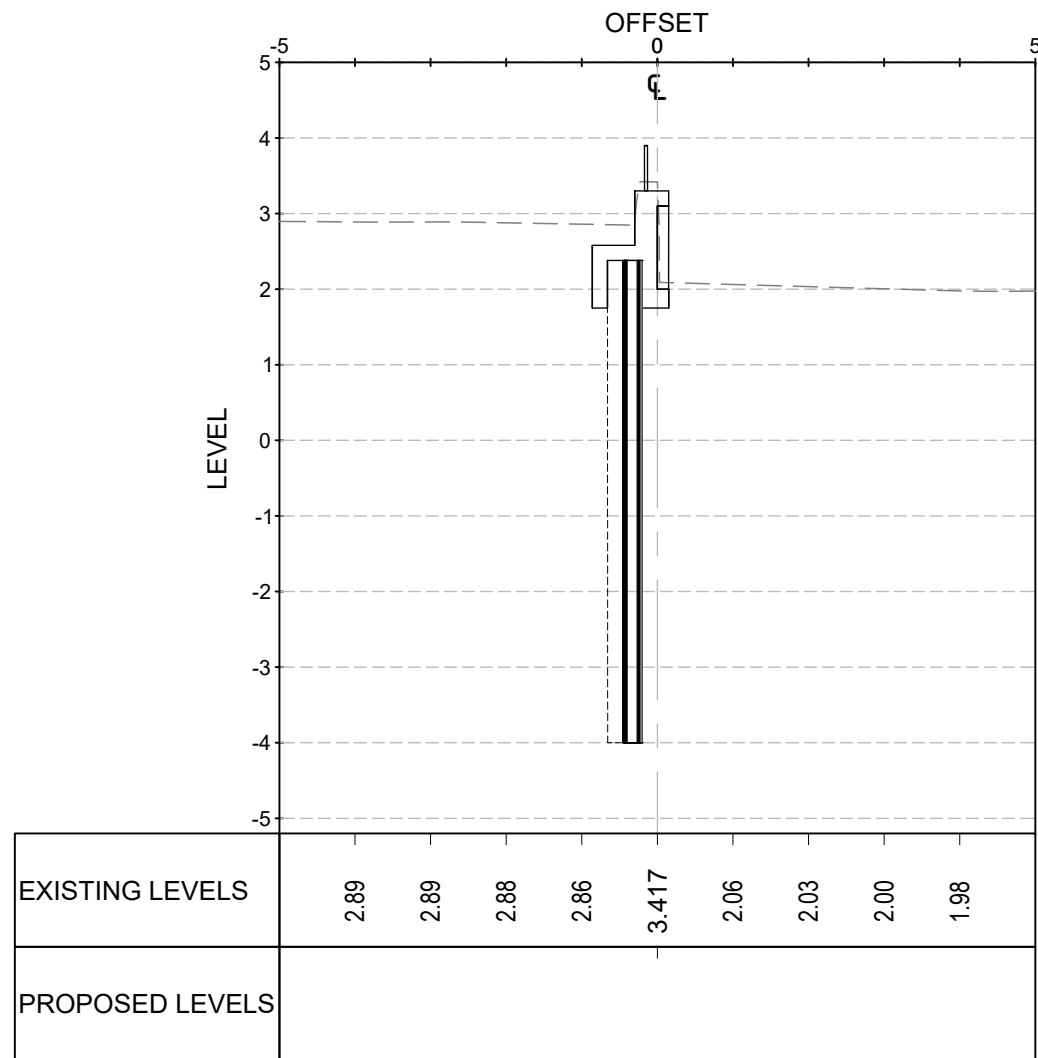


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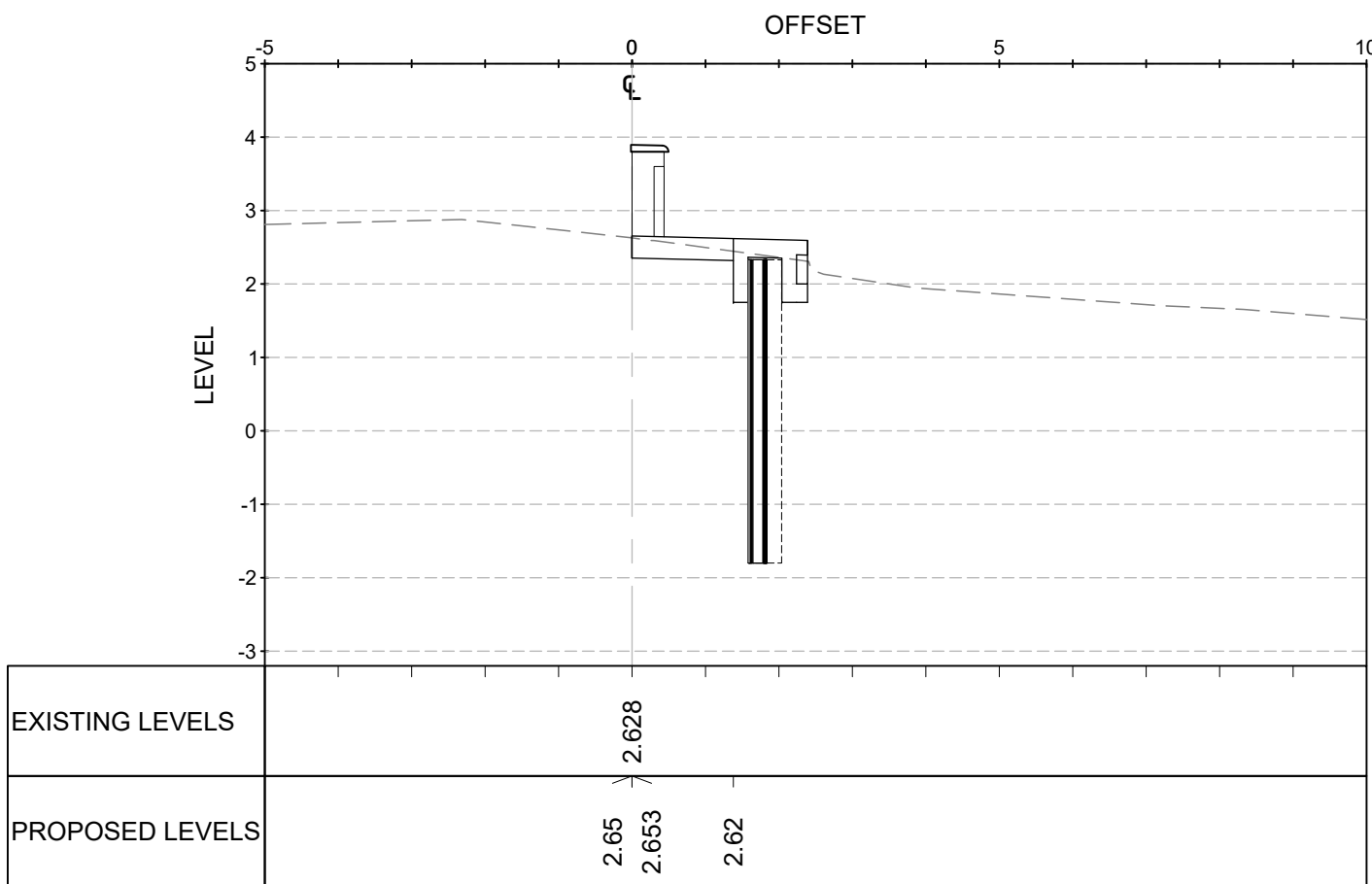
PLAN
SCALE 1:125



SECTION 6-6, CH: 100.000 - SHEET PILE WALL
SCALE: H 1:100, V 1:100



SECTION 7-7, CH: 120.000 - SHEET PILE WALL
SCALE: H 1:100, V 1:100



SECTION 8-8, CH: 145.000 - SHIP INN ANNEX
SCALE: H 1:100, V 1:100

LEGEND: EXISTING UTILITIES

- Unknown GPR
- Unknown RD
- GPR - British Telecommunications
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- GPR - Electricity Low Voltage
- Digital - Openreach (British Telecommunications)
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PROPOSED SCHEME FOOTPRINT:
Frontage 2
Frontage 3



PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

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CONSULTANT

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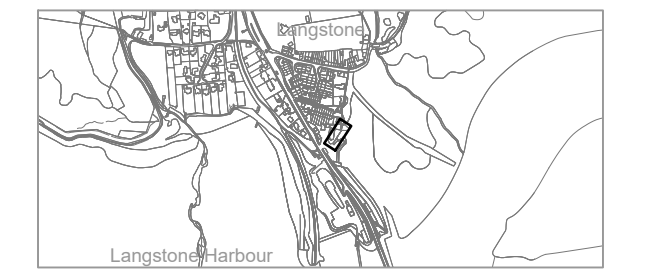
ISSUE/REVISION

NO	DATE	DESCRIPTION
P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
I/R	DATE	DESCRIPTION

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN



PROJECT NUMBER

60656877

SHEET TITLE

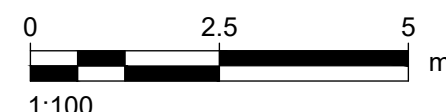
FRONTAGE 3
MODEL SECTIONS
AND EXISTING UTILITIES
SHEET 2

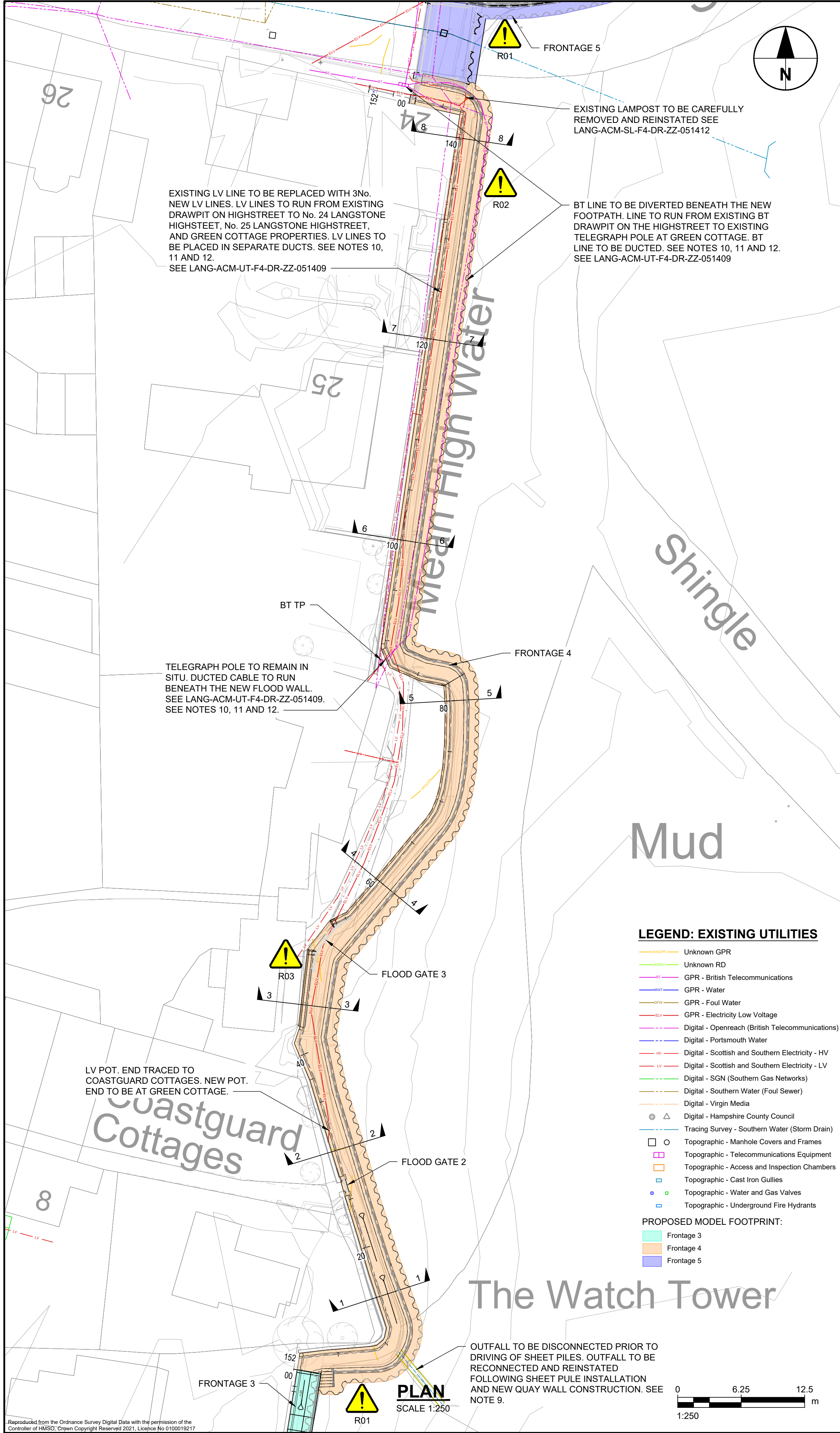
SHEET NUMBER

LANG-ACM-ZZ-F3-DR-ZZ-031303

SAFETY HEALTH AND ENVIRONMENT INFORMATION

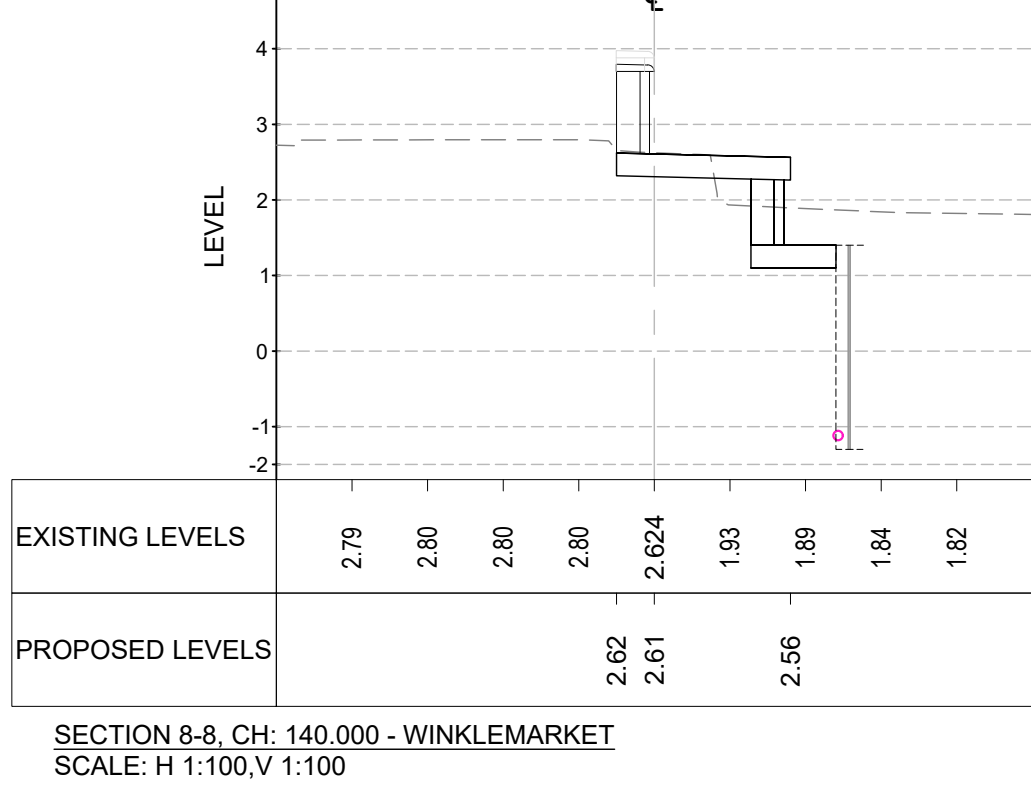
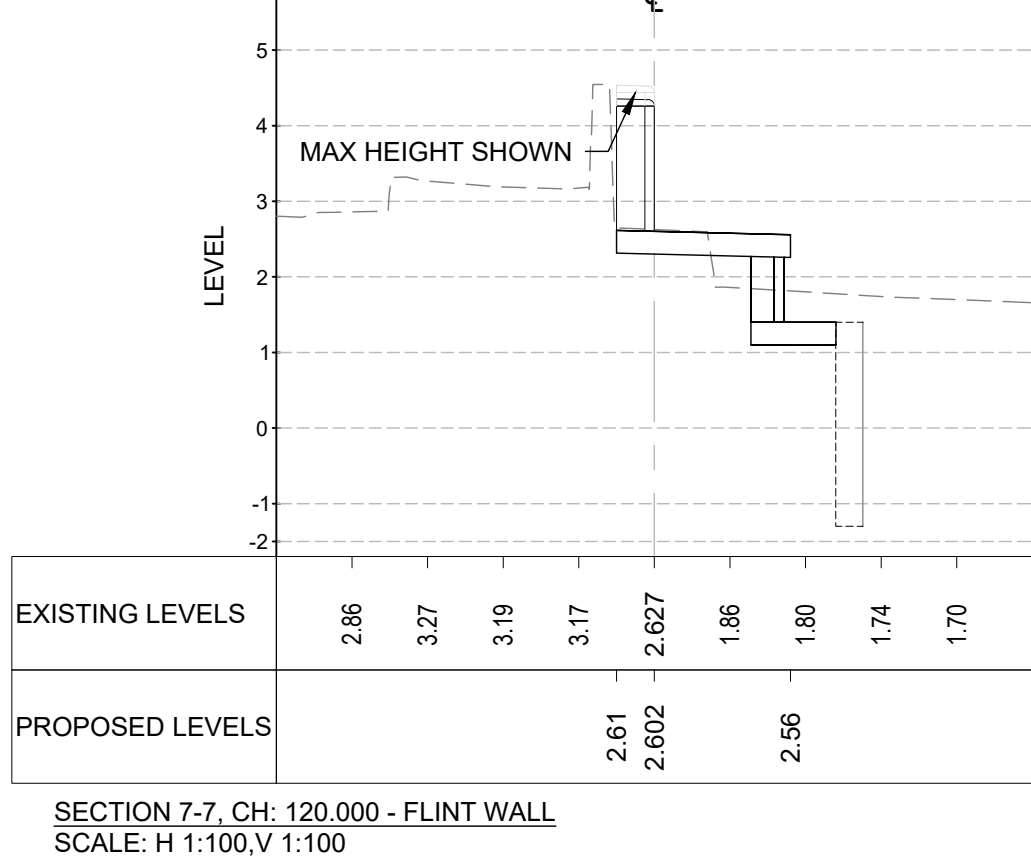
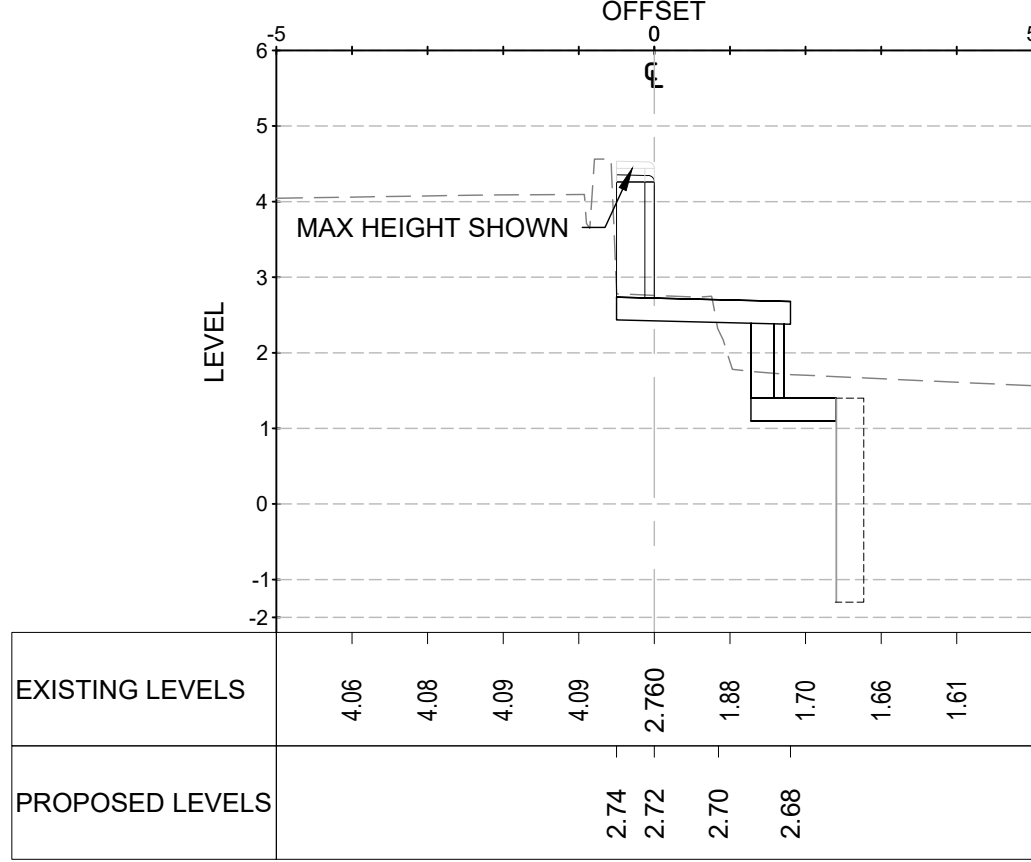
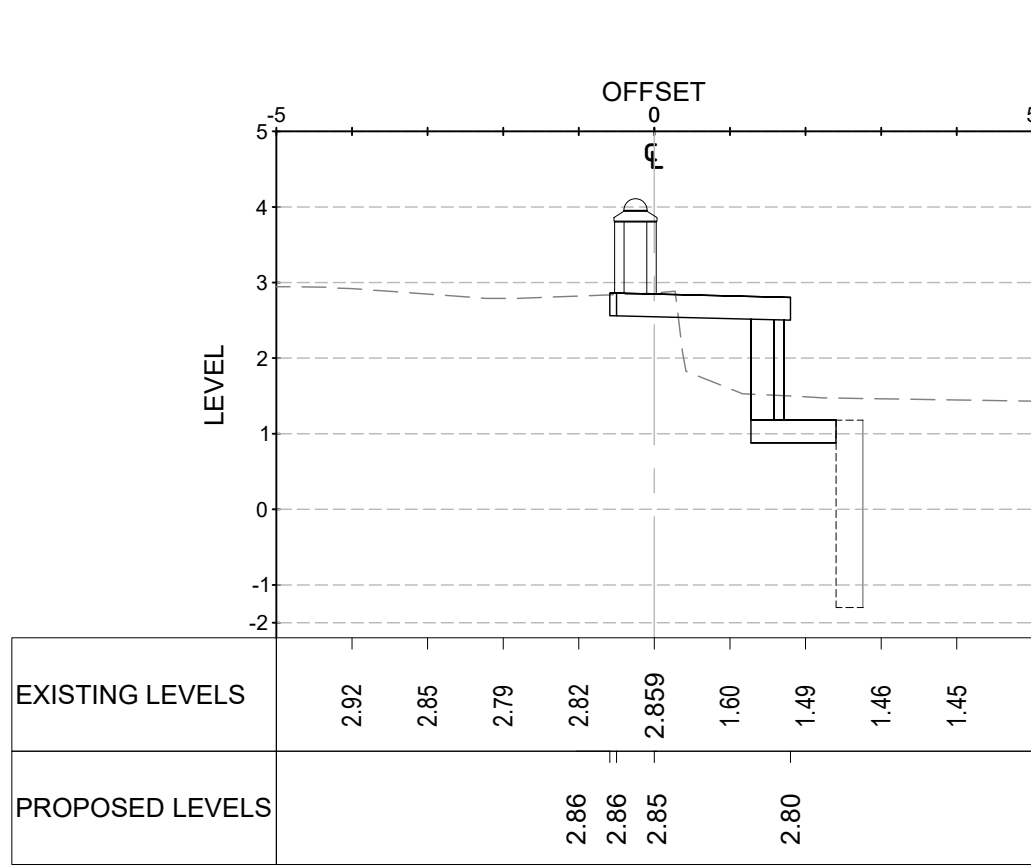
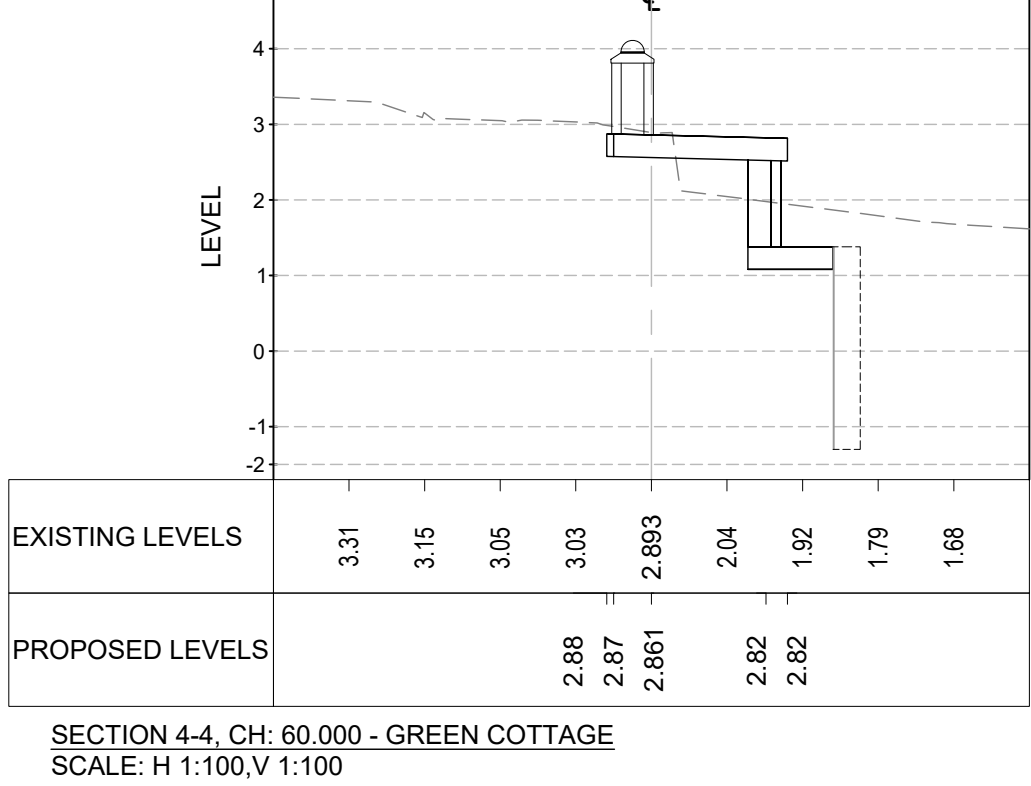
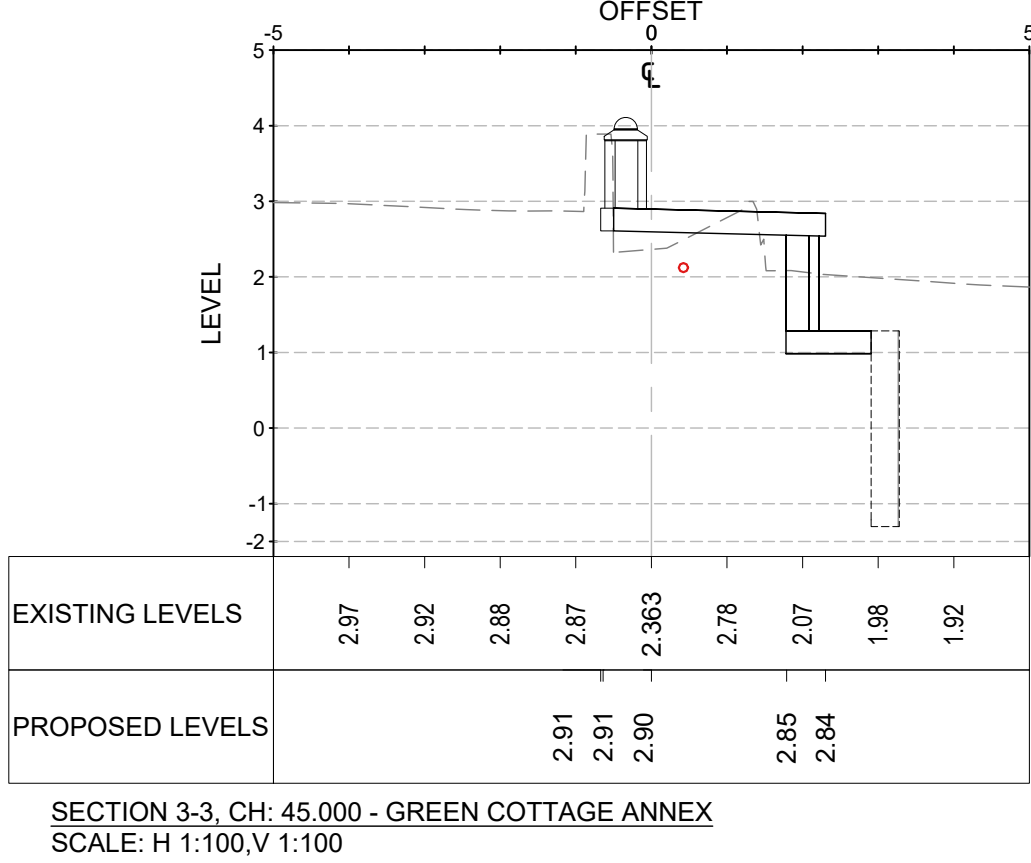
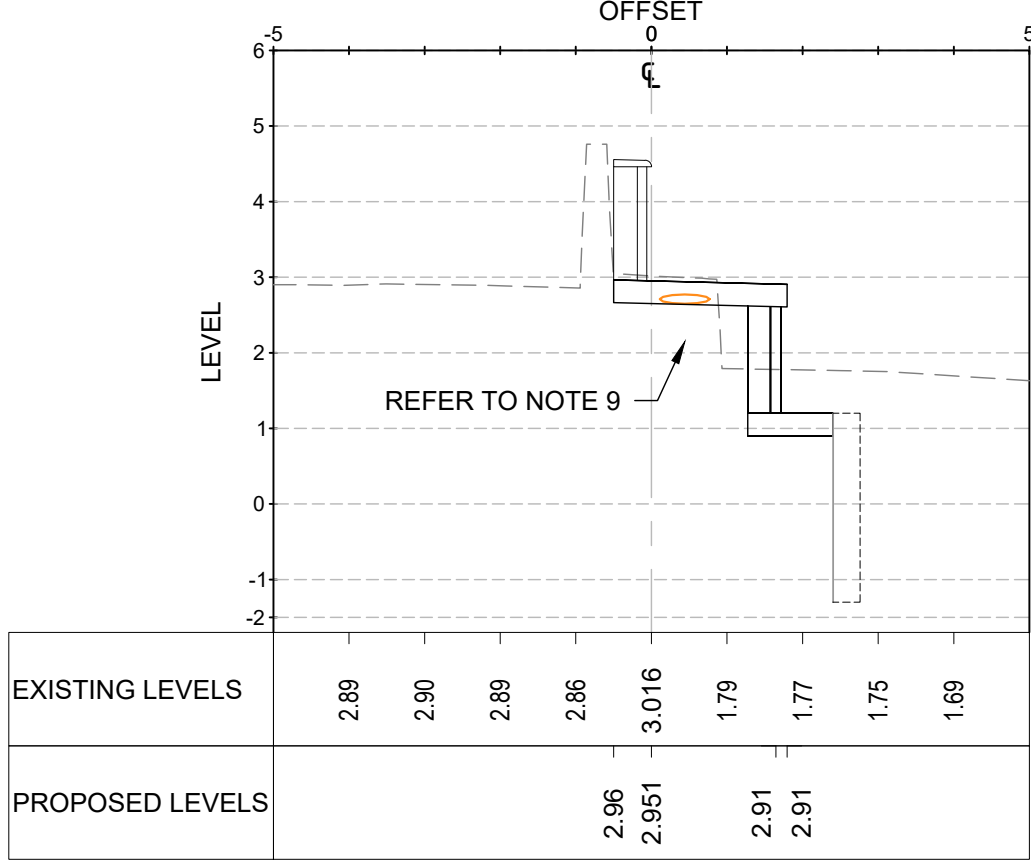
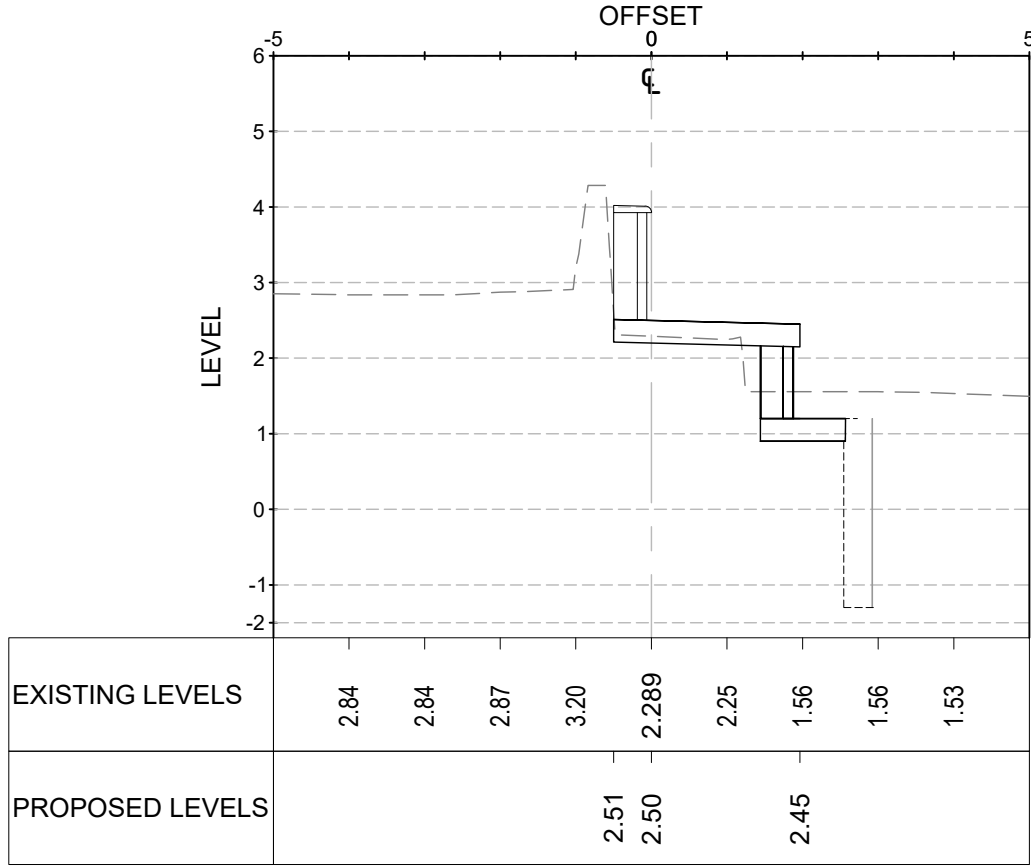
PLEASE REFER TO LANG-ACM-ZZ-F3-DR-ZZ-011301 FOR SHE INFORMATION.





SAFETY HEALTH AND ENVIRONMENT INFORMATION

PLEASE REFER TO LANG-ACM-ZZ-F4-DR-ZZ-011401 FOR SHE INFORMATION.



AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

CLIENT

HAVANT BOROUGH COUNCIL

CONSULTANT

Midpoint, Alençon Link,
Basingstoke, Hampshire,
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NOTES

GENERAL NOTES

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- DEFENCE LENGTH/EXTENT SHOWN ARE APPROXIMATE. THE EXACT EXTENT OF THE TYPICAL CROSS SECTION IS TO BE CONFIRMED ON SITE WITH THE SUPERVISOR.
- EXISTING PATH LEVELS VARIES ALONG DEFENCE LENGTH, AND BEACH LEVEL VARY SPATIALLY AND WITH TIME.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRN (LANG-ACM-ZZ-02-001/08) FOR ANY IDENTIFIED POTENTIAL RISKS.
- ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - #011401
TYPICAL CROSS SECTIONS - #051403 TO #051410
SERVICES DIVERSION - #051411
DRAINAGE - #011047 AND #021408

DRAWING SPECIFIC NOTES

- DEFENCE ALIGNMENT HAS BEEN DETERMINED FROM TOPOGRAPHICAL SURVEY AND LASER SCAN DATA PROVIDED BY COASTAL PARTNERS.
- ALL EXISTING LAND DRAINAGE OUTFALLS SHALL BE IDENTIFIED PRIOR TO WORKS COMMENCING. OUTFALLS SHALL BE MAINTAINED OR PROVIDED WITH A FLAP VALVE TO ENSURE THAT CONTINUITY OF THE FLOOD DEFENCE IS MAINTAINED.
- THE SERVICE INFORMATION SHOWN HAS BEEN INFORMED BY DIGITAL MAPPING, GPR SURVEY, TOPOGRAPHICAL SURVEY AND CONVERSATIONS WITH UTILITY PROVIDERS. EXACT POSITION OF EXISTING SERVICES IS TO BE CONFIRMED ON SITE PRIOR TO WORKS COMMENCING. SOME LINES ARE KNOWN TO BE ABANDONED SEE ASSET REGISTER FOR DETAILS.
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21/11/23	100% Detailed Design
P02	08/02/24	100% Detailed Design
C01	08/02/24	Construction Issue
P03	21/01/25	Design Update
C02	21/01/25	Design Update

ISSUE PURPOSE / SUITABILITY

Detail Design Authorised/Accepted

KEY PLAN

PROJECT NUMBER

60656877

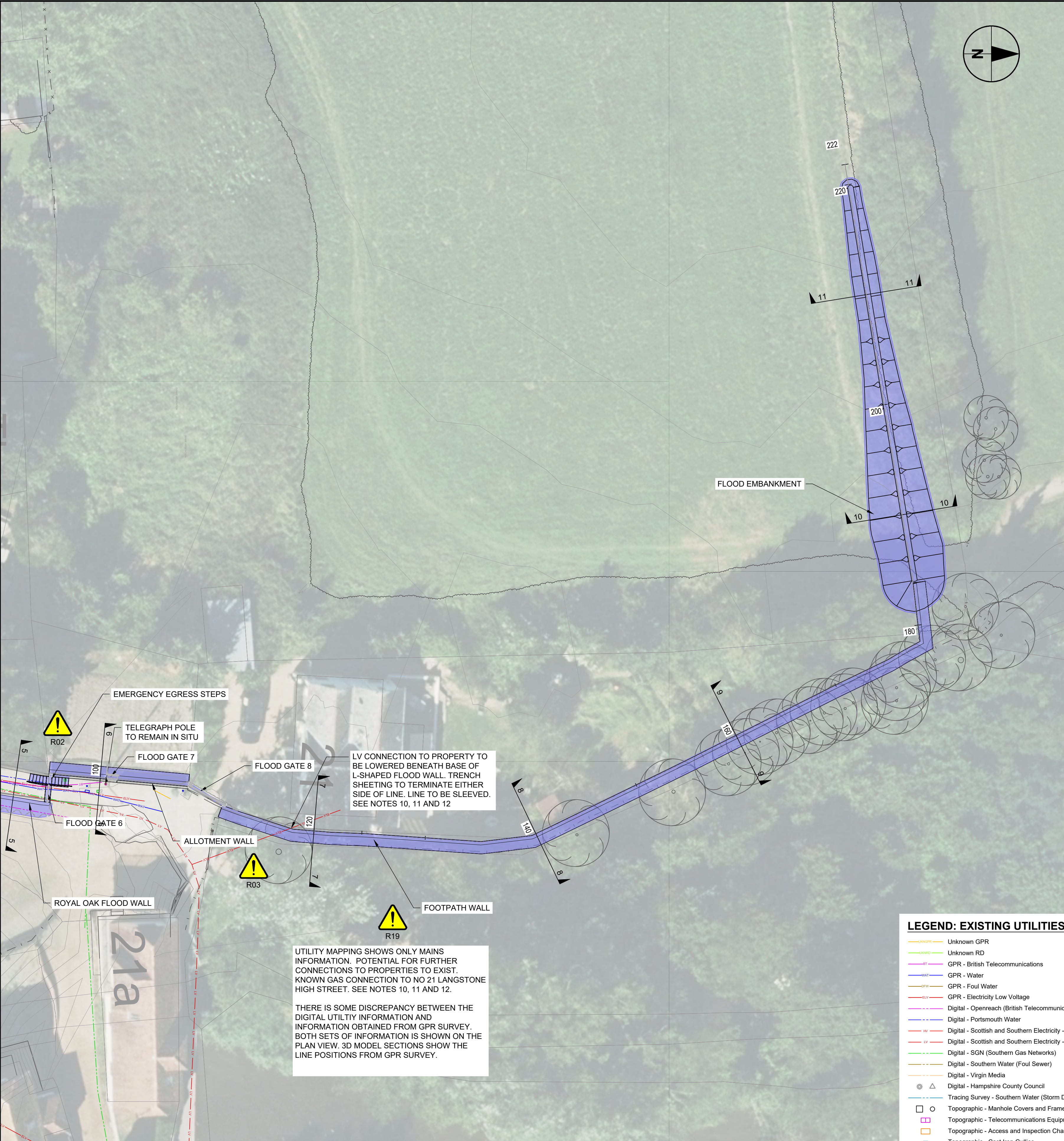
SHEET TITLE

FRONTAGE 4
MODEL SECTIONS
AND EXISTING UTILITIES

SHEET NUMBER

LANG-ACM-ZZ-F4-DR-ZZ-031402

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SAFETY HEALTH AND ENVIRONMENT INFORMATION

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

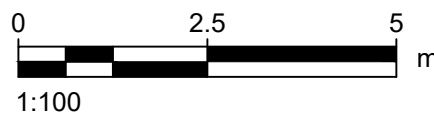
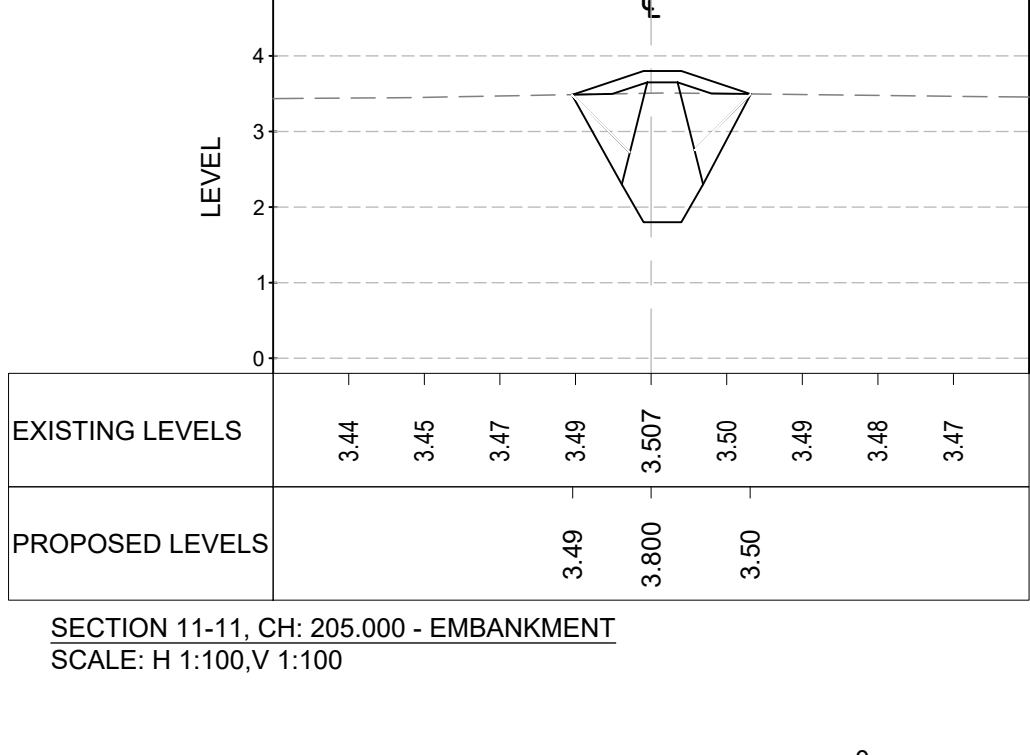
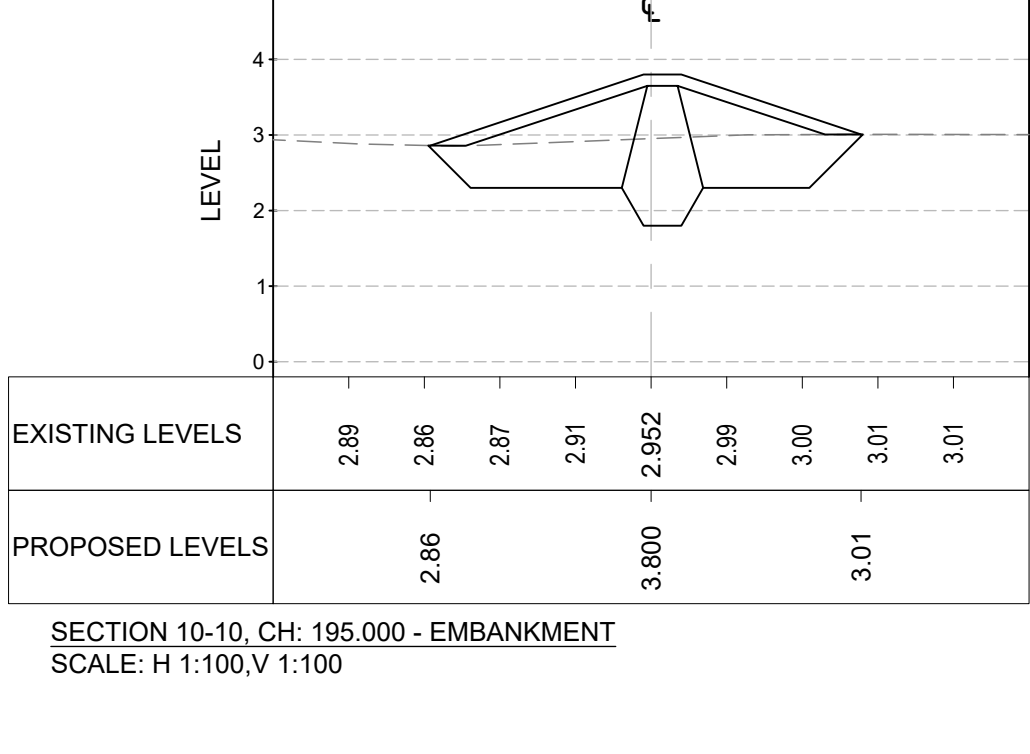
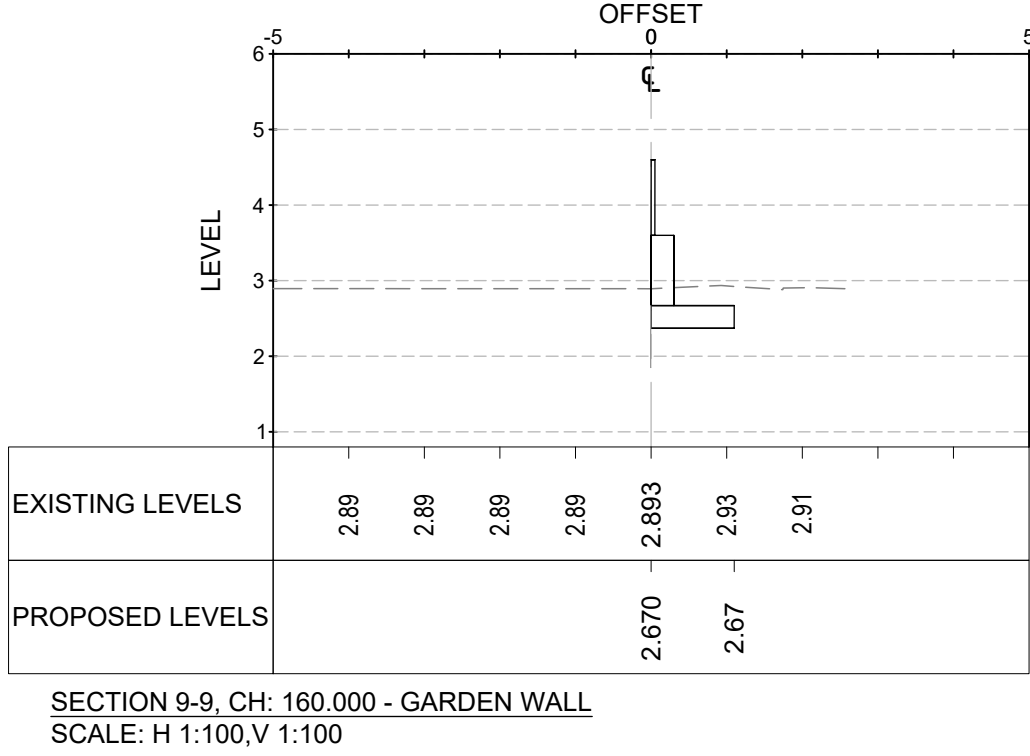
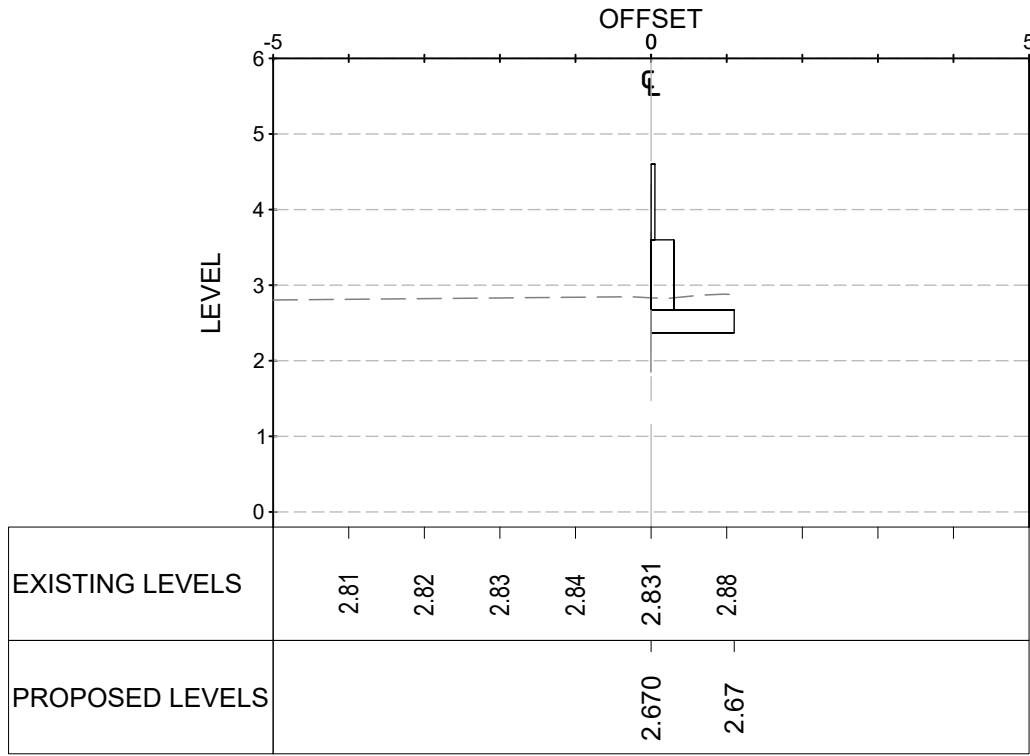
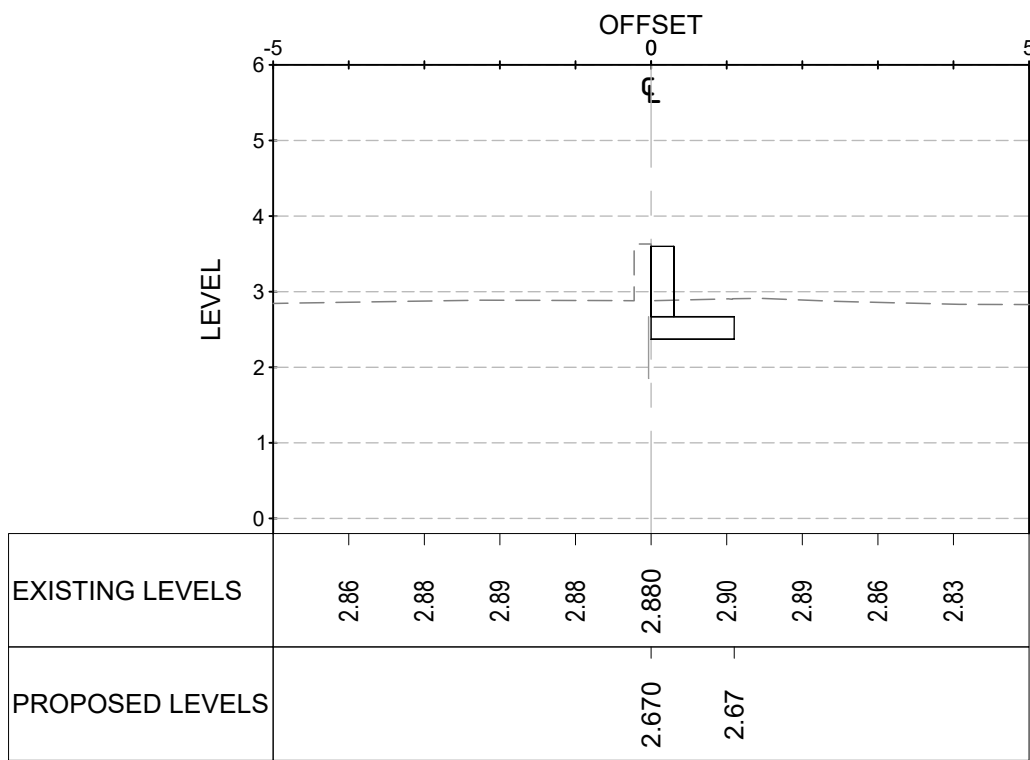
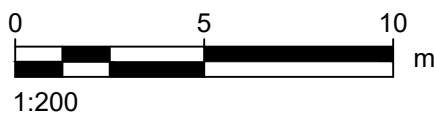
PLAN
SCALE 1:200

LEGEND: EXISTING UTILITIES

- Unknown GPR
- Unknown RD
- GPR - British Telecommunications
- GPR - Water
- GPR - Foul Water
- GPR - Electricity Low Voltage
- Digital - Openreach (British Telecommunications)
- Digital - Portsmouth Water
- Digital - Scottish and Southern Electricity - HV
- Digital - Scottish and Southern Electricity - LV
- Digital - SGN (Southern Gas Networks)
- Digital - Southern Water (Foul Sewer)
- Digital - Virgin Media
- Digital - Hampshire County Council
- Tracing Survey - Southern Water (Storm Drain)
- Topographic - Manhole Covers and Frames
- Topographic - Telecommunications Equipment
- Topographic - Access and Inspection Chambers
- Topographic - Cast Iron Gullies
- Topographic - Water and Gas Valves
- Topographic - Underground Fire Hydrants

PROPOSED SCHEME FOOTPRINT:

- Frontage 4
- Frontage 5



AECOM

PROJECT

Langstone Flood and Coastal Erosion Risk Management Scheme

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 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER (LANG-ACM-ZZ-ZZ-RK-ZZ-000106) FOR ANY IDENTIFIED POTENTIAL RISKS.
 - ALSO REFER TO DRAWINGS:
GENERAL ARRANGEMENT - 011501
MODEL CROSS SECTIONS - 031502 AND 031503
TYPICAL DETAILS - 051504 TO 051506
DRAINAGE - 011508, 031509 AND 051501
REBAR DETAILS - 081508 TO 081509
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Detail Design Authorised/Accepted

KEY PLAN



PROJECT NUMBER

60656877

SHEET TITLE

FRONTAGE 5
MODEL SECTIONS
AND EXISTING UTILITIES
SHEET 2 OF 2

SHEET NUMBER

LANG-ACM-ZZ-F5-DR-ZZ-031503