

**CS CONSULTING
GROUP**
DUBLIN - LONDON - LIMERICK

An Bord Pleanála
64 Marlborough Street
Dublin 1
D01 V902

Job Ref: T060

A - GL

Date: 17-Dec-21

Proposed Residential Development

Mill Road, Saggart,

Co. Dublin

Dear Sir/Madam,

Please find attached a copy of the Statement of Design Acceptance from Irish Water for the proposed watermain and foul sewer network design layouts for the proposed development at Mill Road, Saggart, Co. Dublin

Yours sincerely,

Gary Lindsay
Associate
Chartered Civil Engineer
B.E, CEng, M.I.E.I

Gary Lindsay
CS Consulting
19 - 22 Dame Street
Dublin
D02E267

19 October 2021

**Re: Design Submission for Mill Road, Saggart, Co. Dublin (the “Development”)
(the “Design Submission”) / Connection Reference No: CDS20005806**

Dear Gary Lindsay,

Many thanks for your recent Design Submission.

We have reviewed your proposal for the connection(s) at the Development. Based on the information provided, which included the documents outlined in Appendix A to this letter, Irish Water has no objection to your proposals.


This letter does not constitute an offer, in whole or in part, to provide a connection to any Irish Water infrastructure. Before you can connect to our network you must sign a connection agreement with Irish Water. This can be applied for by completing the connection application form at www.water.ie/connections. Irish Water’s current charges for water and wastewater connections are set out in the Water Charges Plan as approved by the Commission for Regulation of Utilities (CRU)(https://www.cru.ie/document_group/irish-waters-water-charges-plan-2018/).

You the Customer (including any designers/contractors or other related parties appointed by you) is entirely responsible for the design and construction of all water and/or wastewater infrastructure within the Development which is necessary to facilitate connection(s) from the boundary of the Development to Irish Water’s network(s) (the “**Self-Lay Works**”), as reflected in your Design Submission. Acceptance of the Design Submission by Irish Water does not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.

If you have any further questions, please contact your Irish Water representative:

Name: Dario Alvarez
Email: dalvarez@water.ie

Yours sincerely,



Yvonne Harris
Head of Customer Operations

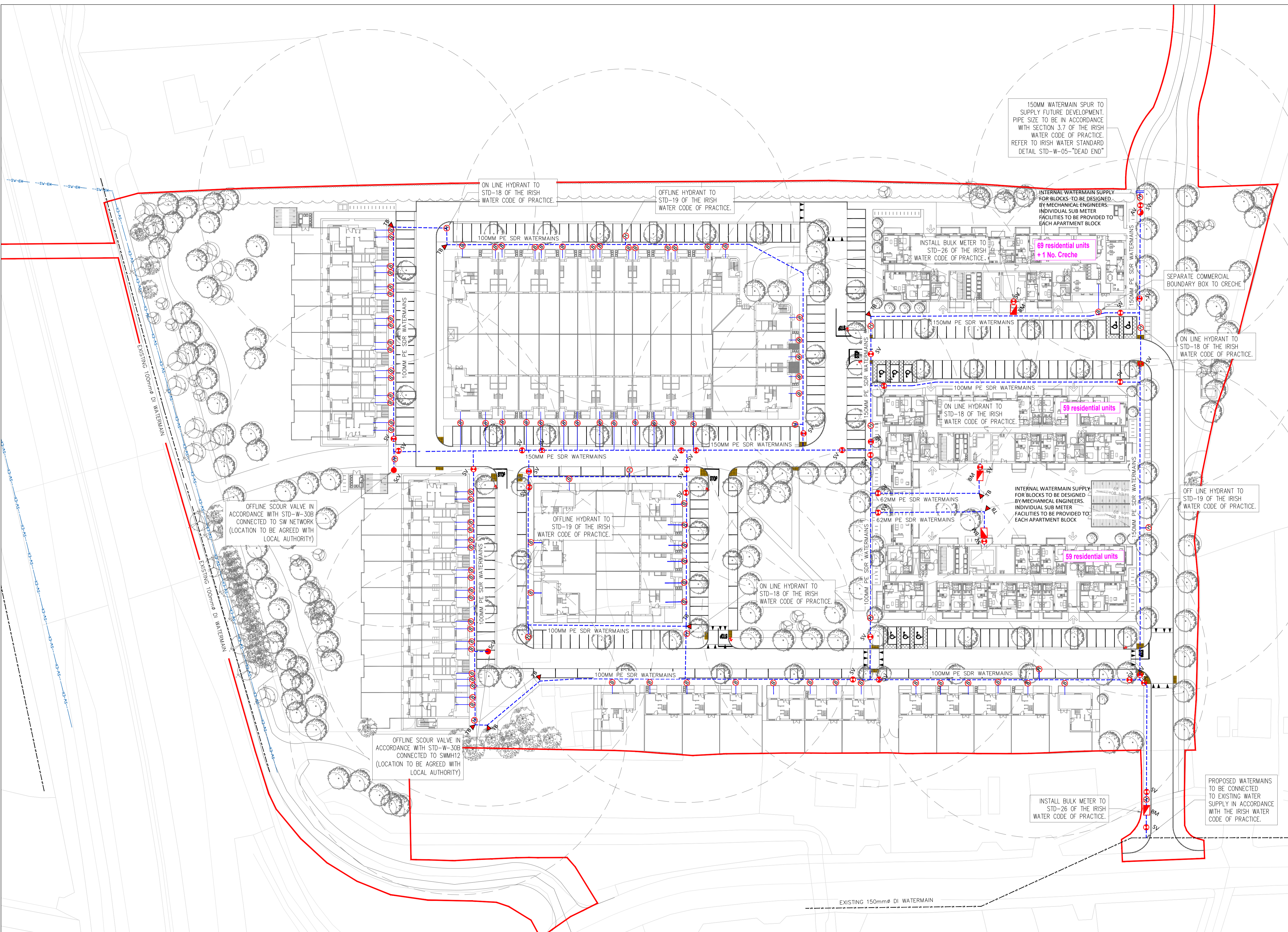
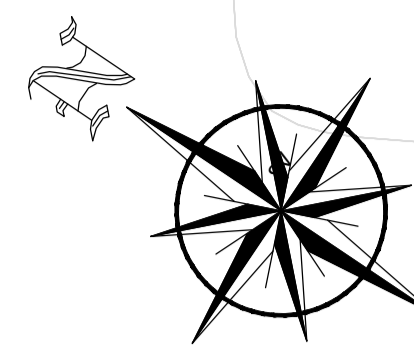
Appendix A

Document Title & Revision

- [MILL-CSC-ZZ-XX-DR-C-0001_Drainage Plan Layout]
- [MILL-CSC-ZZ-XX-DR-C-0002_Watermain Plan Layout]
- [MILL-CSC-ZZ-XX-DR-C-0018-Foul Longsections]
- [MILL-CSC-ZZ-XX-DR-C-0019-Foul Longsections]

For further information, visit www.water.ie/connections

Notwithstanding any matters listed above, the Customer (including any appointed designers/contractors, etc.) is entirely responsible for the design and construction of the Self-Lay Works. Acceptance of the Design Submission by Irish Water will not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.



LEGEND

1. EXISTING PUBLIC WATERMAINS	---
2. PROPOSED WATERMAINS	---
3. SLUICE VALVE TO IRISH WATER STANDARD DETAIL STD-W-15	SV
4. AIR VALVE TO IRISH WATER STANDARD DETAIL STD-W-22	AV
5. HYDRANT TO IRISH WATER STANDARD DETAIL STD-W-19	H
6. SCOUR VALVE TO IRISH WATER STANDARD DETAIL STD-W-30	ScV
7. BULK METER TO IRISH WATER STANDARD DETAIL STD-W-26	BM
8. PROPOSED BOUNDARY BOX	B
9. THRUST BLOCK	TB

- NOTES**
- All pipe work, valves, chambers, network arrangements and all associated watermain works to be in accordance with Irish Water Codes of Practice and Standard Details.
 - All new watermain material shall be in accordance with Section 3.9 of the Irish Water Code of Practice.
 - All manholes in grassed areas to be 200mm wide x 100mm deep concrete plinth/kerb cast to their perimeter to ensure they are not overgrown. Concrete to be grade C20/25.
 - Meters for apartments and similar properties shall be installed internally within the premises in accordance with the Building Control Authority's requirements and subject to review by Irish Water as per section 3.15.2 of the Code of Practice.
 - Proposed watermain to be located a minimum of 300mm from the wastewater infrastructure in accordance with section 3.15.18 of the 3.15.18 of the Irish Water Wastewater Code of Practice.
 - The location of the bulk meter, valves and hydrants shall be designed in accordance with section 3.15.4 of the Irish Water Code of Practice.
 - Note the Fire Safety Certificate has not been completed yet, but as part of this development, it is confirmed that hydrants shall not be located any more than 46m from any part of the development.
 - All watermain works to be taken in charge to be air pressure tested in accordance with Irish Water Code of Practice Section 4.10.
 - Service connections to apartment blocks to be 62mm OD diameter unless stated otherwise in the drawing.
 - Apartment blocks to have boosted supply systems. An isolation device shall be provided using a connection via an unrestricted air-gap device (AA Type, IS EN 1717) to prevent backflow to IW Network and prevent risk of contamination. See Section 3.13 of the Irish Water Code of Practice.

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NOTES

- For setting out refer to Architect's drawings.
- This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No	Date	REVISION NOTE	Des. By	Chk. By
P1	2021.09.10	REVISED SITE LAYOUT	AB	GL
P2	2021.09.29	REVISED SITE LAYOUT	AB	GL
P3	2021.10.18	UPDATES FOLLOWING IW COMMENTS	MM	GL
P4	2021.12.10	REVISED SITE LAYOUT	AB	GL

Architect	Darmody Architecture
Project	Development at Mill Road
Title	Proposed Watermain
Dwg. No.	MILL-CSC-ZZ-XX-DR-C-0002
Date	Nov 2020
Des. By	AB
Chk. By	GL
Appr. By	NB
Scale	1:500@A1
Revision	P4

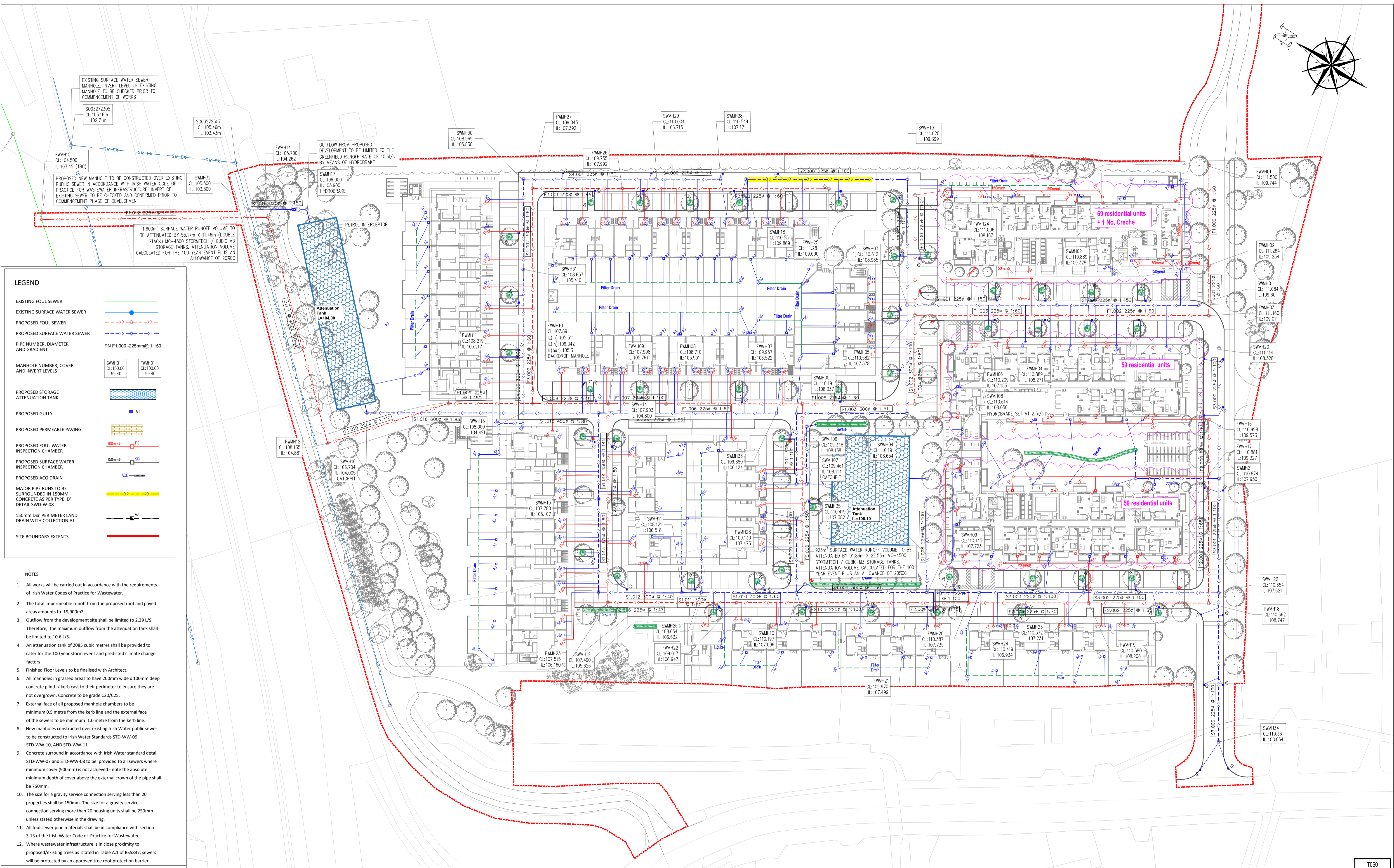
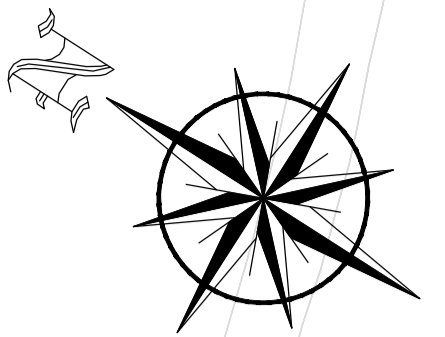
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NSAI Certified

Quality Environment Health & Safety

ISO 9001:2008
 ISO 14001:2004
 ISO 50001:2011
 OHSAS 18001:2007



LEGEND

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- PIPE NUMBER, DIAMETER AND GRADIENT
- MANHOLE NUMBER, COVER AND INVERT LEVELS
- PROPOSED STORAGE ATTENUATION TANK
- PROPOSED GULLY
- PROPOSED PERMEABLE PAVING
- PROPOSED FOUL WATER INSPECTION CHAMBER
- PROPOSED SURFACE WATER INSPECTION CHAMBER
- PROPOSED ACO DRAIN
- MAJOR PIPE RUNS TO BE SURROUNDED IN 150MM CONCRETE AS PER TYPE 'D' DETAIL SWD-W-08
- 150mm Dia PERIMETER LAND DRAIN WITH COLLECTION AJ
- SITE BOUNDARY EXTENTS

- NOTES**
- All works will be carried out in accordance with the requirements of Irish Water Codes of Practice for Wastewater.
 - The total impermeable runoff from the proposed roof and paved areas amounts to 19,900m².
 - Outflow from the development site shall be limited to 2.29 L/S. Therefore, the maximum outflow from the attenuation tank shall be limited to 10.6 L/S.
 - An attenuation tank of 2085 cubic metres shall be provided to cater for the 100 year storm event and predicted climate change factors.
 - Finished Floor Levels to be finalised with Architect.
 - All manholes in grassed areas to have 200mm wide x 100mm deep concrete plinth / kerb cast to their perimeter to ensure they are not overgrown. Concrete to be grade C20/C25.
 - External face of all proposed manhole chambers to be minimum 0.5 metre from the kerb line and the external face of the sewers to be minimum 1.0 metre from the kerb line.
 - New manholes constructed over existing Irish Water public sewer to be constructed to Irish Water Standards STD-WW-09, STD-WW-10, AND STD-WW-11
 - Concrete surround in accordance with Irish Water standard detail STD-WW-07 and STD-WW-08 to be provided to all sewers where minimum cover (900mm) is not achieved - note the absolute minimum depth of cover above the external crown of the pipe shall be 750mm.
 - The size for a gravity service connection serving less than 20 properties shall be 150mm. The size for a gravity service connection serving more than 20 housing units shall be 250mm unless stated otherwise in the drawing.
 - All foul sewer pipe materials shall be in compliance with section 3.13 of the Irish Water Code of Practice for Wastewater.
 - Where wastewater infrastructure is in close proximity to proposed/existing trees as stated in Table A.1 of BS5837, sewers will be protected by an approved tree root protection barrier.

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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
P1	2021.09.22	DRAFT	AB	GL
P2	2021.09.29	REVISED LAYOUT	AB	GL
P3	2021.10.18	UPDATES FOLLOWING IW COMMENTS	AB	GL
P4	2021.12.10	REVISED SITE LAYOUT	AB	GL

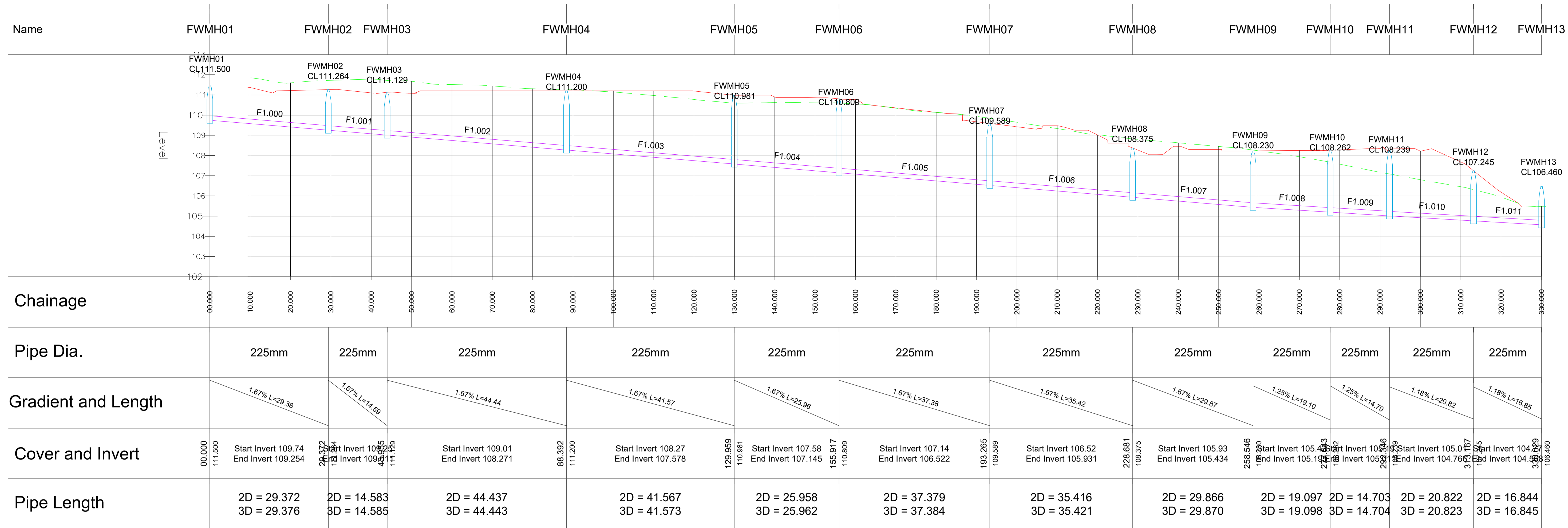
Architect	Darmody Architecture	
Project	Development at Mill Road	
Title	Proposed Drainage	
Dwg. No.	MILL-CSC-ZZ-XX-DR-C-0001	
Date	Nov 2020	Revision P4

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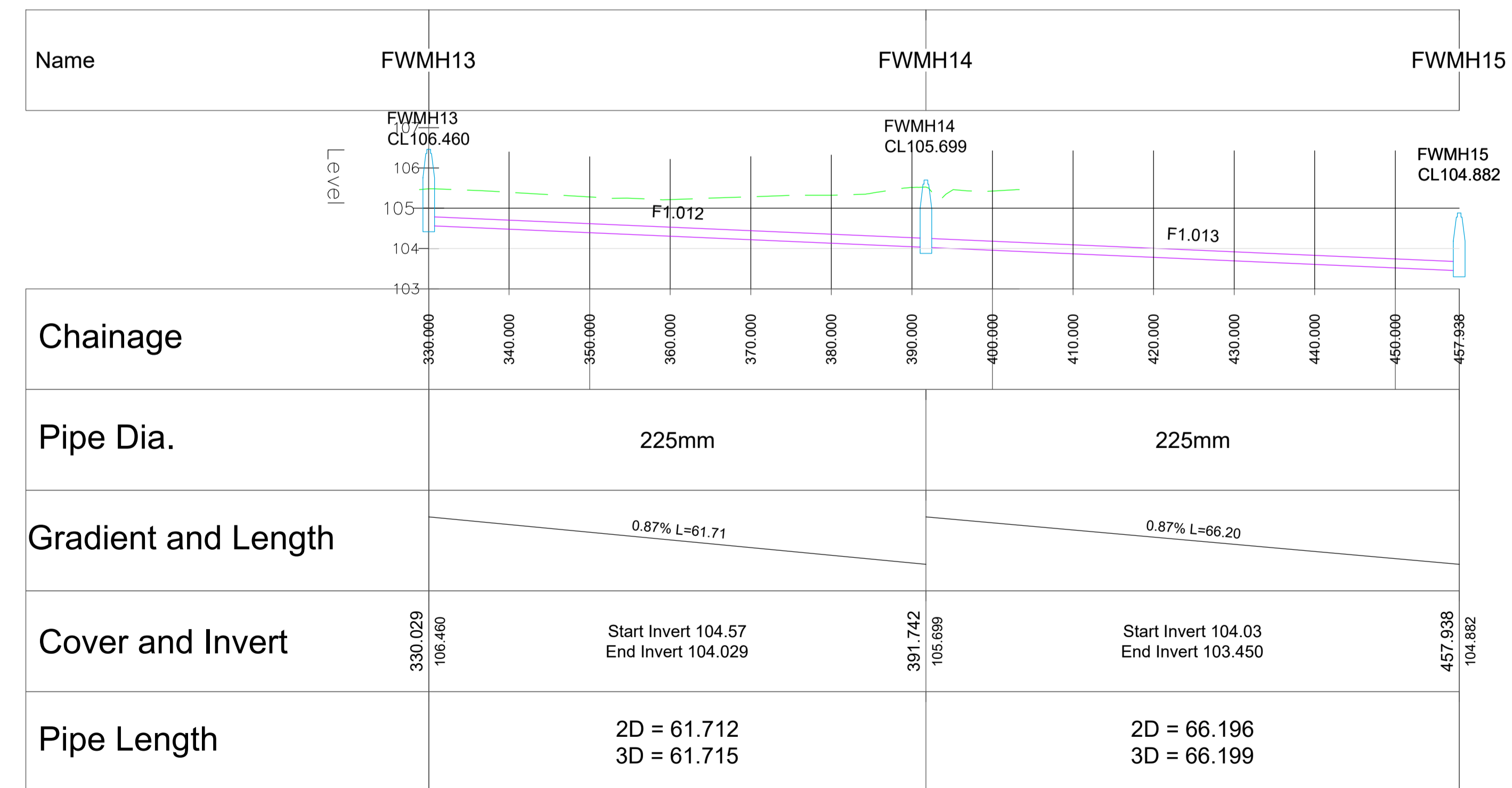
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 Energy I.S. EN ISO 14001:2004
 Health & Safety OHSAS 18001:2007

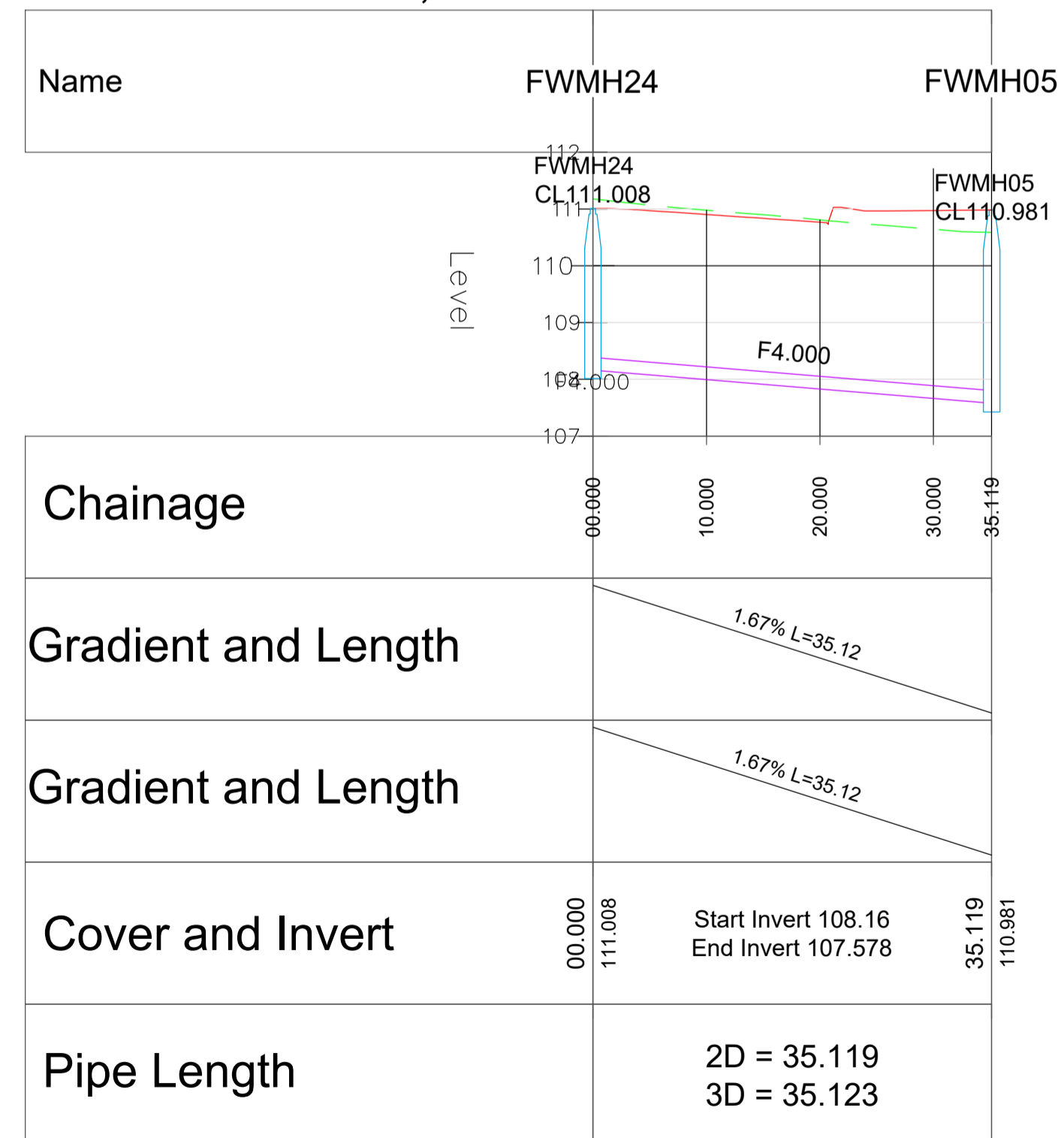
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FWMH01-FWMH15 - LONGSECTION
SCALE: H 1:500,V 1:100. DATUM: 102.000



FWMH24 - FWMH05 - LONGSECTION
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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By

Architect	Darmody Architecture			
Project	Development at Mill Road			
Title	Proposed Foul Long Sections Sheet 1 of 2			
Dwg. No.	MILL-CSC-ZZ-XX-DR-C-0018			
Date	Drn. by	Chkd. by	Aprvd. by	Scale
Sept 2021	AB	GL	NB	1:500@A1

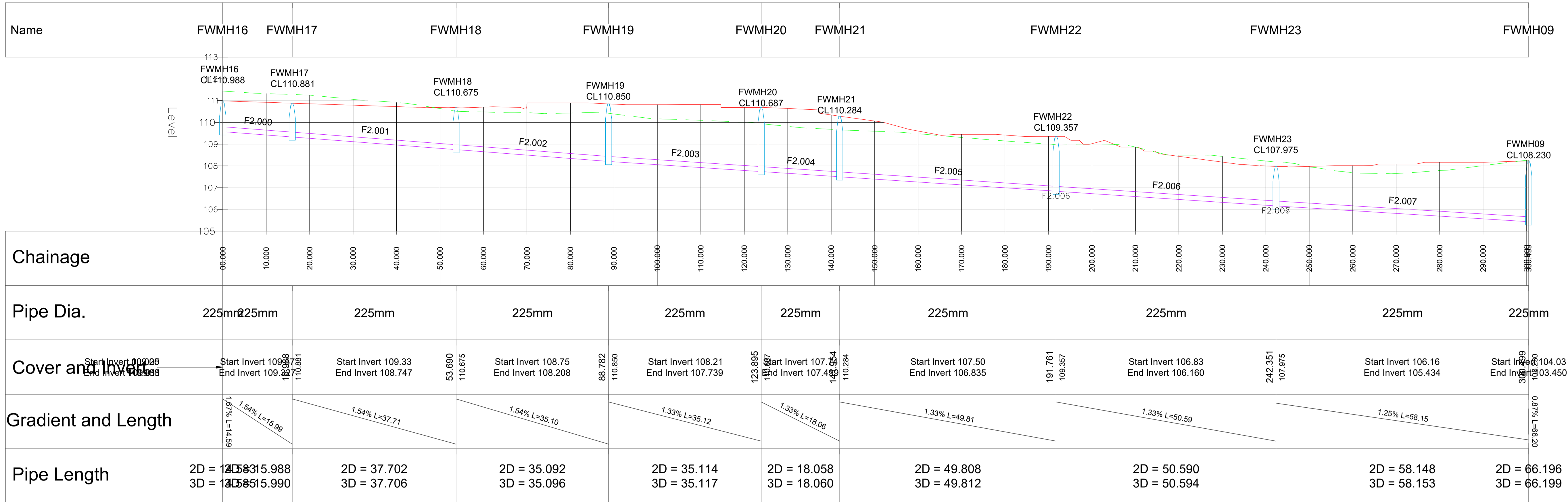
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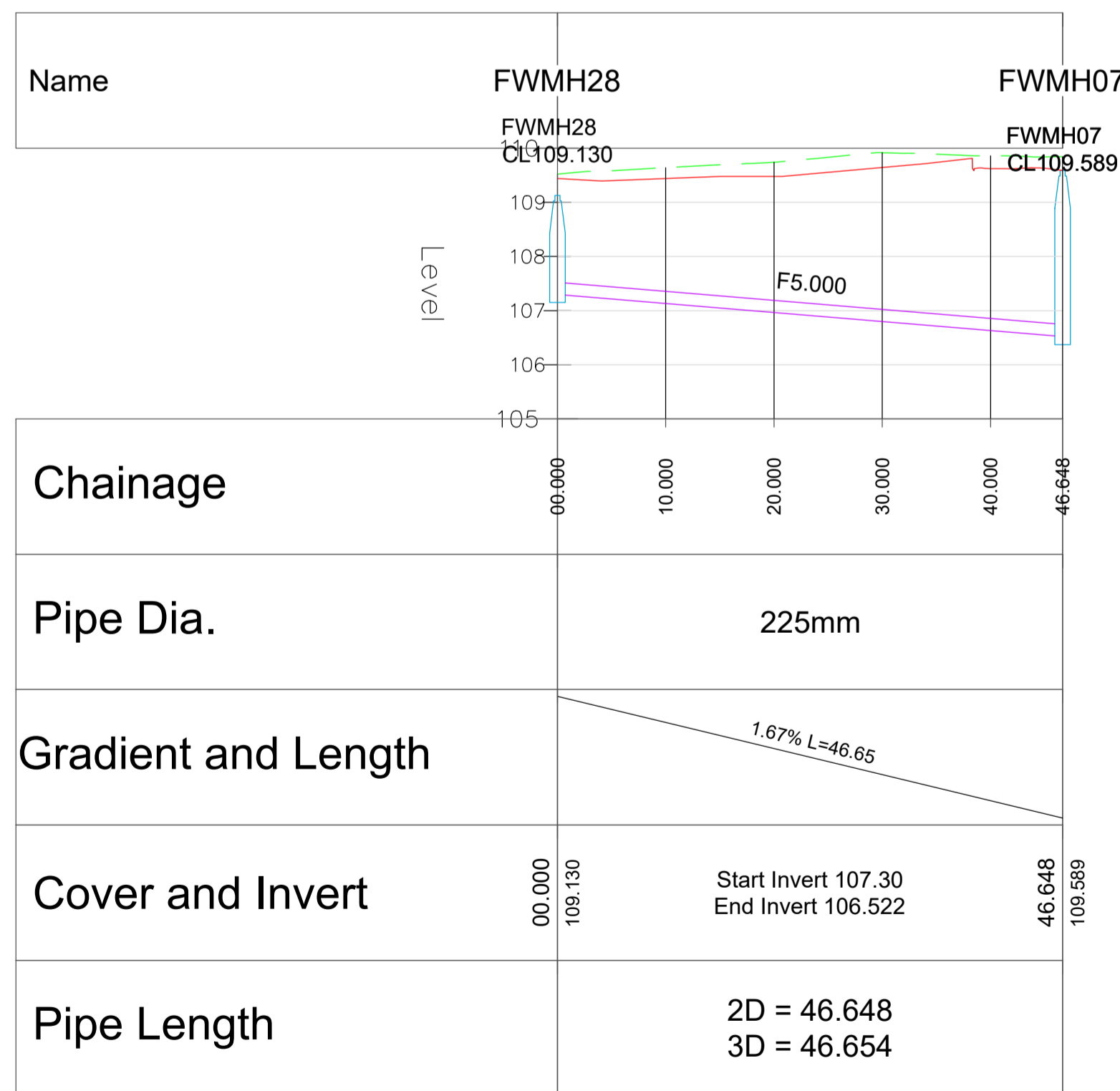
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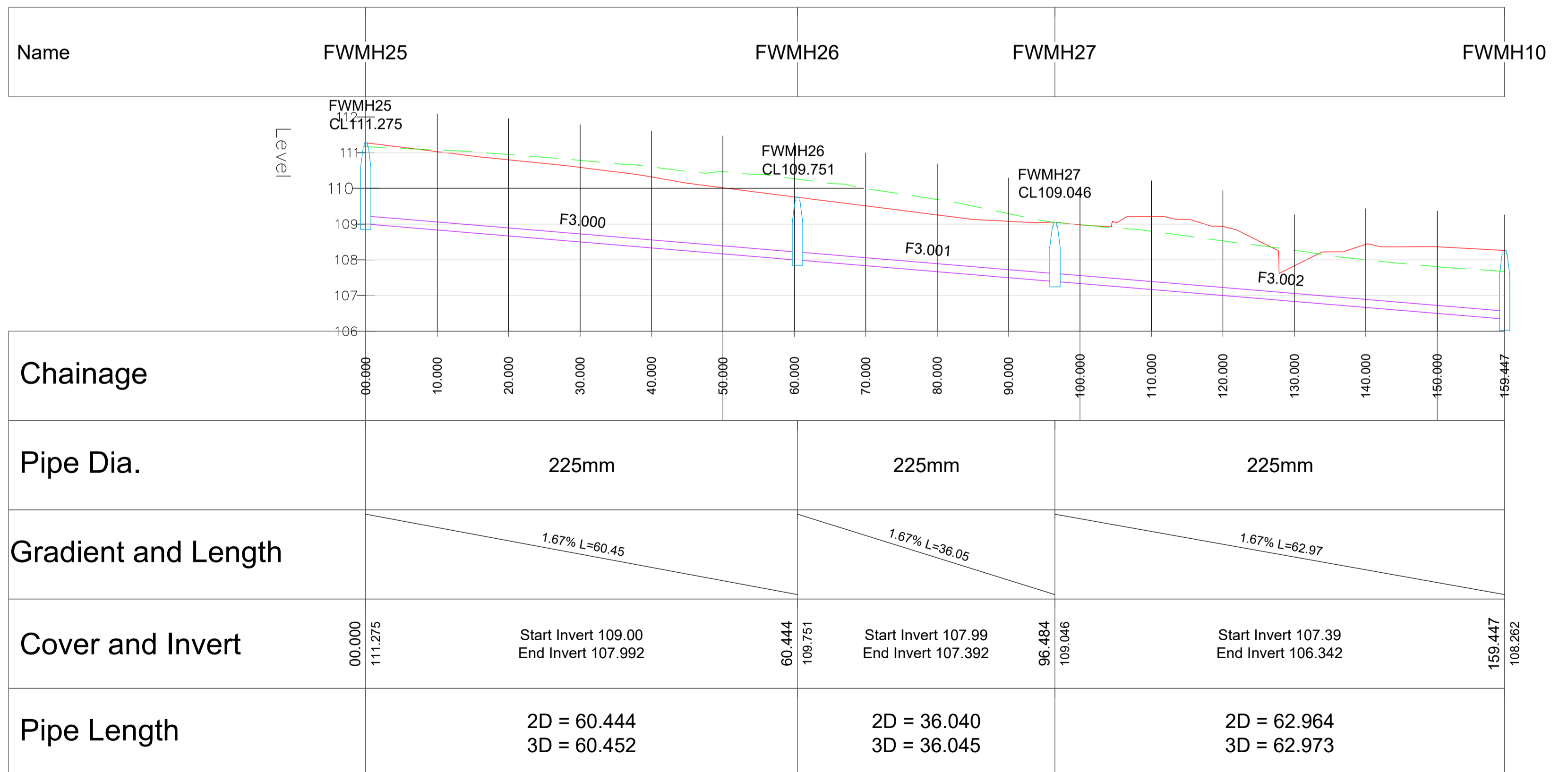
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FWMH28 - FWMH07 - LONGSECTION
SCALE: H 1:500,V 1:100. DATUM: 105.000



FWMH25 - FWMH10 - LONGSECTION
SCALE: H 1:500,V 1:100. DATUM: 105.000



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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By

Architect	Darmody Architecture			
Project	Development at Mill Road			
Title	Proposed Foul Long Section Sheet 2 of 2			
Dwg. No.	MILL-CSC-ZZ-XX-DR-C-0019			
Date	Drn. by	Chkd. by	Apprv. by	Scale
Sept 2021	AB	GL	NB	1:500@A1

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