

Aidan McLernon
7 Grand Canal
Grand Canal Street Lower
Dublin 2 D02KW81
Dublin

Uisce Éireann
Bosca OP 448
Oifig Sheachadta na
Cathrach Theas
Cathair Chorcaí

Irish Water
PO Box 448,
South City
Delivery Office,
Cork City.

www.water.ie

7 August 2020

**Re: Design Submission for Cookstown Road, Enniskerry, Co. Wicklow (the “Development”)
(the “Design Submission”) / Connection Reference No: CDS19004063**

Dear Aidan McLernon,

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: Alvaro Garcia

Email: agarcia@water.ie

Yours sincerely,



Maria O’Dwyer
Connections and Developer Services

Appendix A

Document Title & Revision

- Proposed foul and surface water layout (Drawing no. 18243-BM-C3D-M-DRAINAGE-1020)
- Proposed watermain layout (Drawing no. 18243-BM-C3D-M-DRAINAGE-1030)
- Proposed foul drainage long sections (Drawing no. 18243-BM-C3D-M-DRAINAGE-1122)
- Proposed foul drainage long sections (Drawing no. 18243-BM-C3D-M-DRAINAGE-1123)

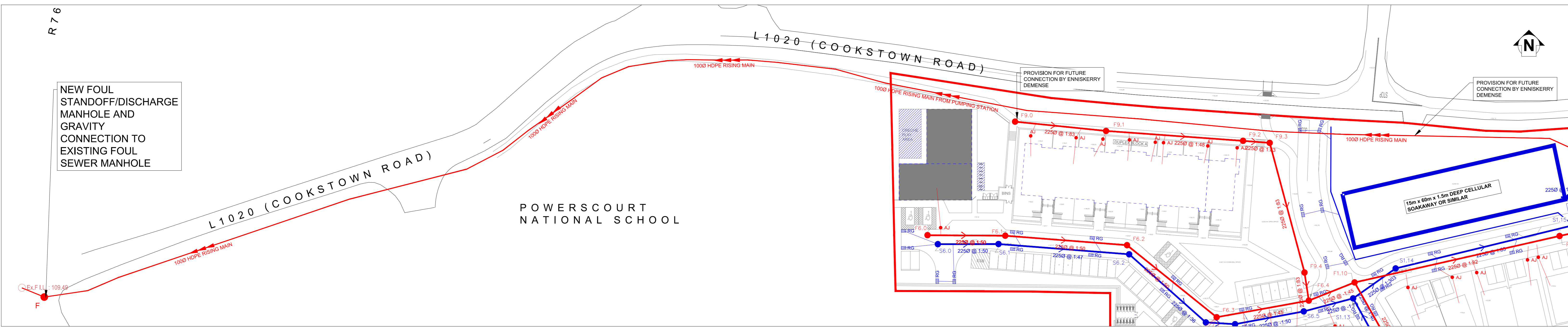
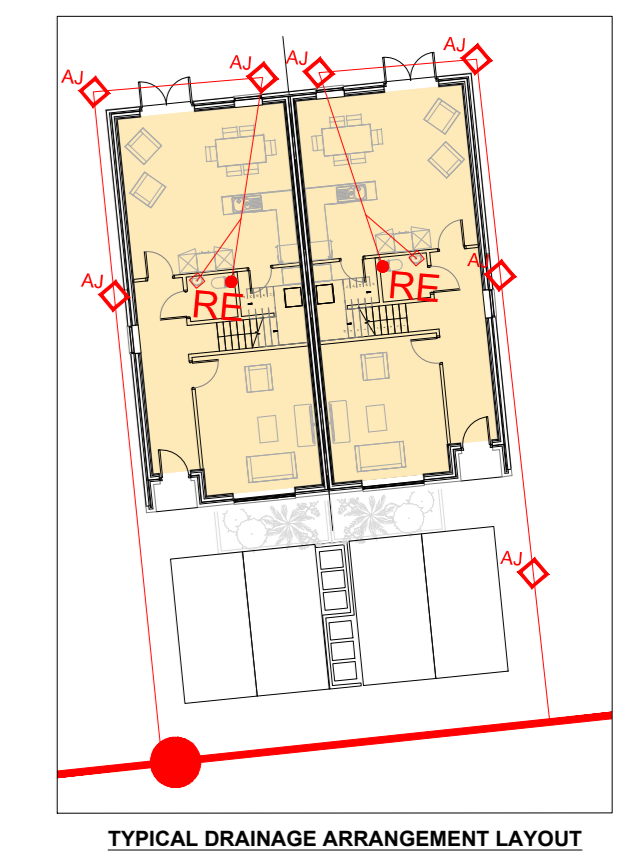
For further information, visit www.water.ie/connections

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.

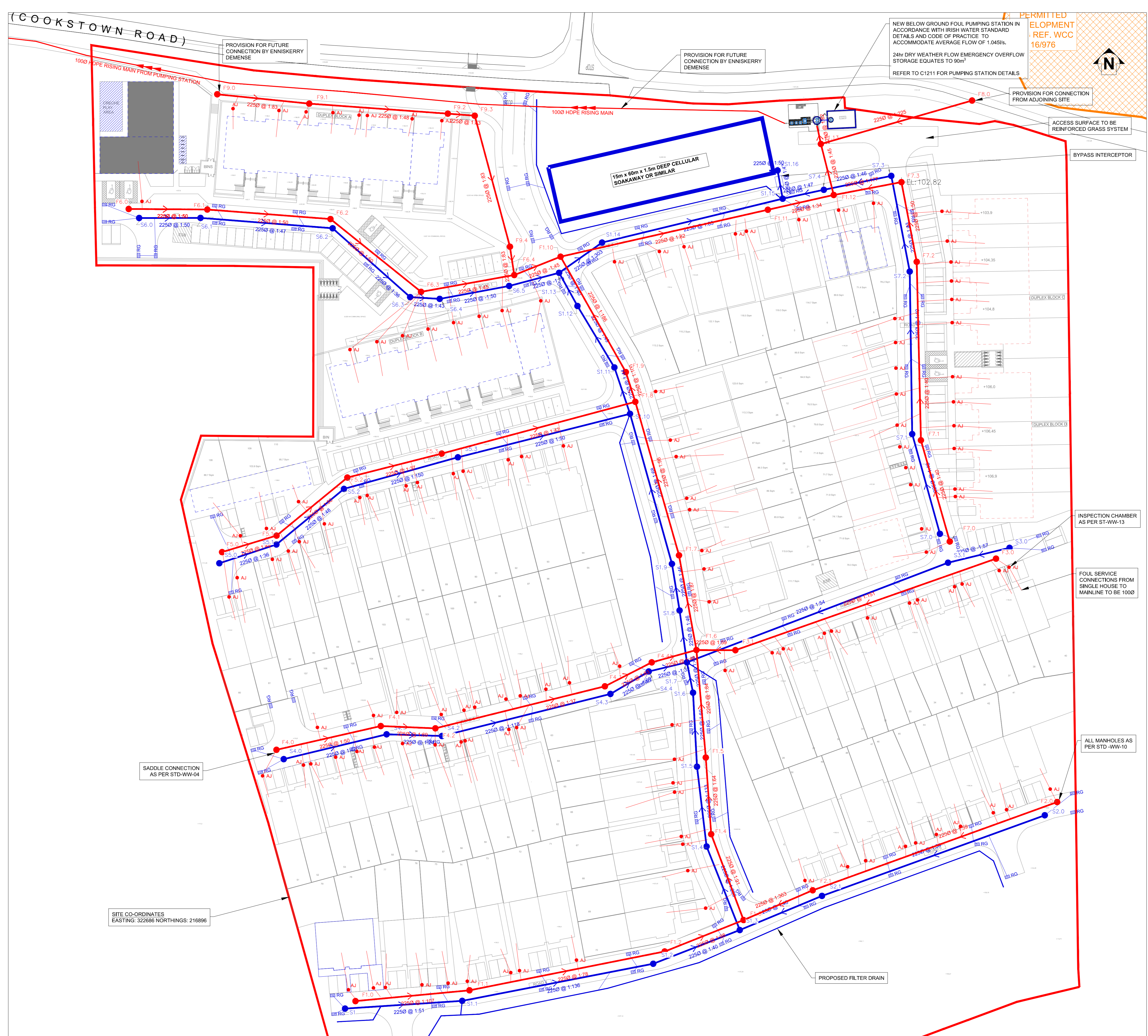
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- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.
- PROPOSED GRAVITY SEWER PIPES ARE TO BE SPECIFIED IN ACCORDANCE WITH SECTION 3.13.1 OF THE WASTEWATER CODE OF PRACTICE.

CIVIL LEGEND

PIPE DESCRIPTION	SYMBOL
NEW FOUL MANHOLE	F ●
NEW FOUL PIPE	—
NEW SURFACE WATER MANHOLE	S ■
NEW SURFACE WATER PIPE	—
FOUL ACCESS JUNCTION	▲ AJ
SURFACE ACCESS JUNCTION	◆ SJ
RAINWATER PIPE	○ RWP
SOIL VENT PIPE	● SVP
ROAD GULLY	■ RG
BACK INLET GULLY TRAP	◇ BIGT
FOUL ROODING EYE	— RE
SURFACE ROODING EYE	— RE
GULLY TRAP	■ GT
SITE BOUNDARY	—



PROPOSED ROUTE OF FOUL RISING MAIN
SCALE @ A2: 1:500
SCALE @ A3: 1:1000



PROPOSED FOUL & SURFACE WATER DRAINAGE LAYOUT
SCALE @ A3: 1:500
SCALE @ A4: 1:1000

NEW FOUL DRAINAGE MANHOLE					
MANHOLE	COVER LEVEL	INVERT LEVEL	E-EASTING	N-NORTHING	
F1.0	+108.68	OUT: +108.62	722619.6691	716662.7527	
F1.1	+108.25	IN FROM F1.0 +106.53 OUT: +108.53	722650.6594	716666.6850	
F1.2	+107.55	IN FROM F1.1 +105.84 OUT: +108.54	722703.7291	716666.2446	
F1.3	+107.41	IN FROM F1.2 +105.60 IN FROM F2.1 +106.22 OUT: +105.18	722725.1697	716704.7905	
F1.4	+107.73	IN FROM F1.3 +104.90 OUT: +104.80	722716.3696	716728.1482	
F1.5	+107.52	IN FROM F1.4 +104.48 OUT: +105.38	722714.9013	716748.9950	
F1.6	+107.32	IN FROM F1.5 +104.02 IN FROM F3.1 +105.52 IN FROM F4.4 +104.61 OUT: +103.88	722712.3645	716778.2202	
F1.7	+106.96	IN FROM F1.6 +103.58 OUT: +103.48	722707.6216	716803.9747	
F1.8	+105.91	IN FROM F1.7 +103.02 IN FROM F3.2 +104.62 OUT: +102.62	722695.7467	716845.7204	
F1.9	+105.62	IN FROM F1.8 +102.74 OUT: +102.64	722693.1645	716863.7907	
F1.10	+104.18	IN FROM F1.9 +102.45 OUT: +102.63	722675.4189	716865.1794	
F1.11	+103.10	IN FROM F1.10 +101.74 OUT: +103.74	722731.7735	716867.9376	
F1.12	+103.46	IN FROM F1.11 +101.19 IN FROM F7.2 +100.72 OUT: +103.23	722749.6830	716901.9579	
F1.13	+103.15	IN FROM F1.12 +99.92 IN FROM F8.0 +96.46 OUT: +103.52	722746.1877	716915.8248	
F2.0	+108.61	OUT: +107.78	722810.4236	716736.8772	
F2.1	+106.14	IN FROM F2.0 +106.58 OUT: +106.28	722743.9649	716712.8989	
F3.0	+108.14	OUT: +108.20	722793.8046	716803.0715	
F3.1	+107.38	IN FROM F3.0 +105.70 OUT: +105.70	722722.9471	716778.1780	
F4.0	+110.76	OUT: +107.28	722598.1817	716751.0904	
F4.1	+109.12	IN FROM F4.0 +106.69 OUT: +106.72	722626.5460	716757.5468	
F4.2	+108.42	IN FROM F4.1 +105.51 OUT: +106.51	722641.3911	716756.9251	
F4.3	+107.35	IN FROM F4.2 +105.24 OUT: +105.24	722667.4698	716768.3509	
F4.4	+107.39	IN FROM F4.3 +105.07 OUT: +105.07	722700.2056	716774.8667	
F5.0	+111.03	OUT: +108.60	722583.4027	716804.8486	
F5.1	+110.00	IN FROM F5.0 +108.28 OUT: +107.78	722596.2082	716809.3331	
F5.2	+108.77	IN FROM F5.1 +107.28 OUT: +107.01	722617.4595	716825.1264	
F5.3	+107.56	IN FROM F5.2 +106.29 OUT: +106.89	722643.1042	716831.6393	
F6.0	+108.27	OUT: +105.76	722558.0115	716898.1582	
F6.1	+107.48	IN FROM F6.0 +105.33 OUT: +105.16	722579.3790	716898.0120	
F6.2	+106.68	IN FROM F6.1 +104.49 OUT: +105.49	722612.8702	716895.4141	
F6.3	+105.76	IN FROM F6.2 +103.86 OUT: +103.86	722637.4979	716875.6243	
F6.4	+104.59	IN FROM F6.3 +103.29 IN FROM F1.0 +103.93 IN FROM F9.4 +102.83	722662.8316	716860.1892	
F7.0	+108.10	OUT: +104.78	722781.2391	716807.7358	
F7.1	+106.77	IN FROM F7.0 +104.06 OUT: +105.81	722773.3936	716835.2550	
F7.2	+104.18	IN FROM F7.1 +102.60 OUT: +101.59	722772.2459	716863.7926	
F7.3	+102.82	IN FROM F7.2 +101.15 OUT: +103.63	722768.0977	716905.4450	
F8.0	+101.60	OUT: +98.65	722787.3029	716927.6403	
F9.0	+104.74	OUT: +104.64	722582.0859	716929.3459	
F9.1	+106.05	IN FROM F9.0 +104.33 OUT: +104.33	722607.0908	716928.8001	
F9.2	+104.74	IN FROM F9.1 +103.54 OUT: +103.55	722644.7687	716924.0749	
F9.3	+104.74	IN FROM F9.2 +103.47 OUT: +103.47	722652.0904	716923.5181	
F9.4	+104.73	IN FROM F9.3 +103.02 OUT: +103.02	722661.6566	716887.8940	

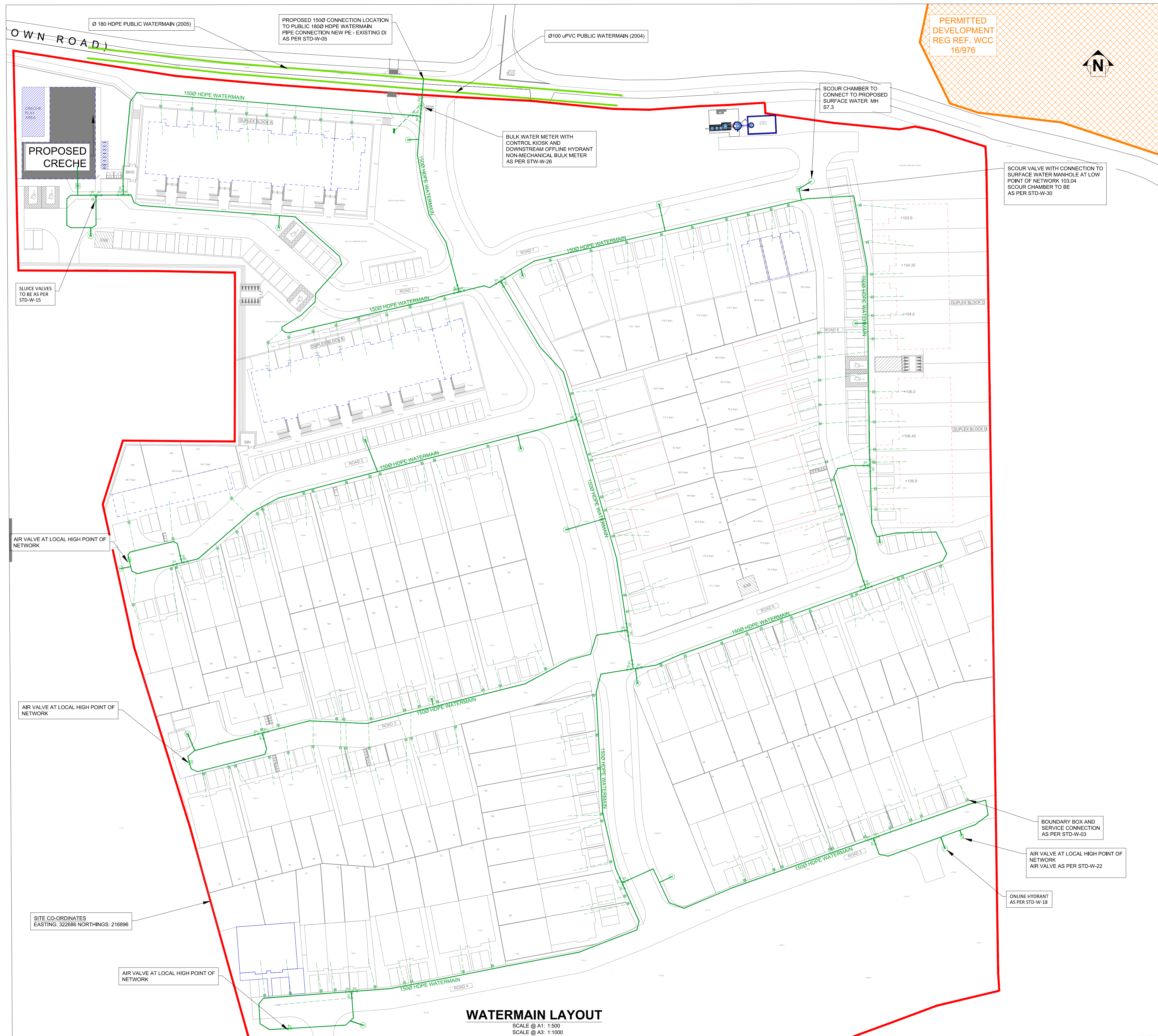
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P3	07.08.20	ISSUED FOR PLANNING			
P2	04.08.20	ISSUED FOR PLANNING			
P1	30.03.20	ISSUED FOR PLANNING			

PLANNING

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 Tel: (0044) (0)44 5413 2722
 Fax: (0044) (0)44 5413 2724
 Consulting Engineers, Civil, Structural, Project Management e-mail: info@bmo.ie

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CLIENT: CAIRN HOMES PROPERTIES LTD.	
PROJECT TITLE: COOKSTOWN ROAD, ENNISKERRY, CO. WICKLOW	PROJECT No: 18243
MODEL REFERENCE: 18243-C1020	MODEL REV: SUITABILITY
DRAWING TITLE: PROPOSED FOUL & SURFACE WATER DRAINAGE LAYOUT	
DRAWING No: 18243-BMD-00-XX-DR-C-1020	SCALE: PL3



Ø 180 HDPE PUBLIC WATERMAIN (2005)

PROPOSED 1500 CONNECTION LOCATION TO PUBLIC 1800 HDPE WATERMAIN PIPE CONNECTION NEW PE - EXISTING DI AS PER STD-W-05

Ø100 uPVC PUBLIC WATERMAIN (2004)

PERMITTED DEVELOPMENT REG REF. WCC 16/976



SCOUR CHAMBER TO CONNECT TO PROPOSED SURFACE WATER MH S7.3

BULK WATER METER WITH CONTROL KIOSK AND DOWNSTREAM OFFLINE HYDRANT NON-MECHANICAL BULK METER AS PER STD-W-26

SCOUR VALVE WITH CONNECTION TO SURFACE WATER MANHOLE AT LOW POINT OF NETWORK 103.04 SCOUR CHAMBER TO BE AS PER STD-W-30

SLUCE VALVES TO BE AS PER STD-W-15

AIR VALVE AT LOCAL HIGH POINT OF NETWORK

AIR VALVE AT LOCAL HIGH POINT OF NETWORK

SITE CO-ORDINATES EASTING: 322686 NORTHINGS: 218896

AIR VALVE AT LOCAL HIGH POINT OF NETWORK

WATERMAIN LAYOUT
SCALE @ A1: 1:500
SCALE @ A3: 1:1000

NOTES

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CIVIL LEGEND

Ex. WATERMAIN	---
WATERMAIN	---
SLUCE VALVE	SV
STOP COCK	SC
AIR VALVE	AV
FIRE HYDRANT	H
MAGNETIC FLOW WATER METER	M
IRRIGATION VALVE	IV
TRUST BLOCK	*
BOUNDARY BOX	BB
SITE BOUNDARY	---

P2	04.08.20	ISSUED FOR PLANNING	NMA	TMH	BM
P1	30.03.20	ISSUED FOR PLANNING	TMH	TMH	BM
ISSUE	DATE	DESCRIPTION	DRN	ORIG	P.D.

DRAWING STAGE **PLANNING**

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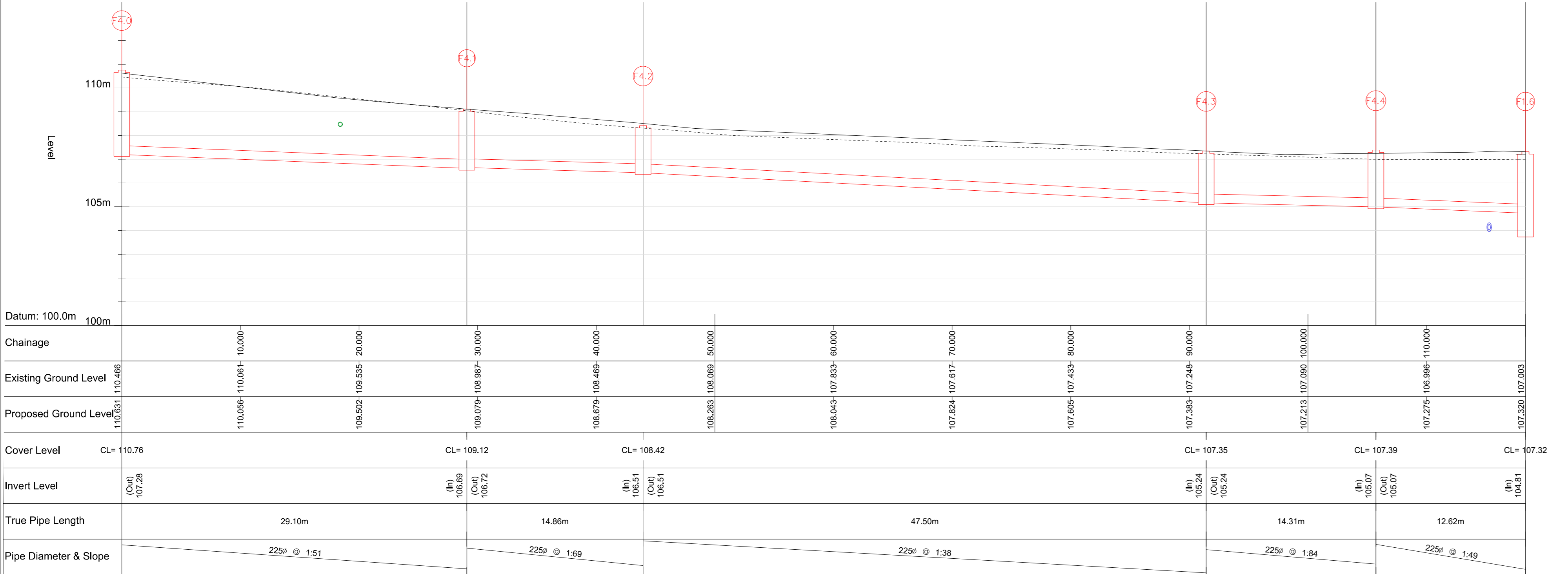
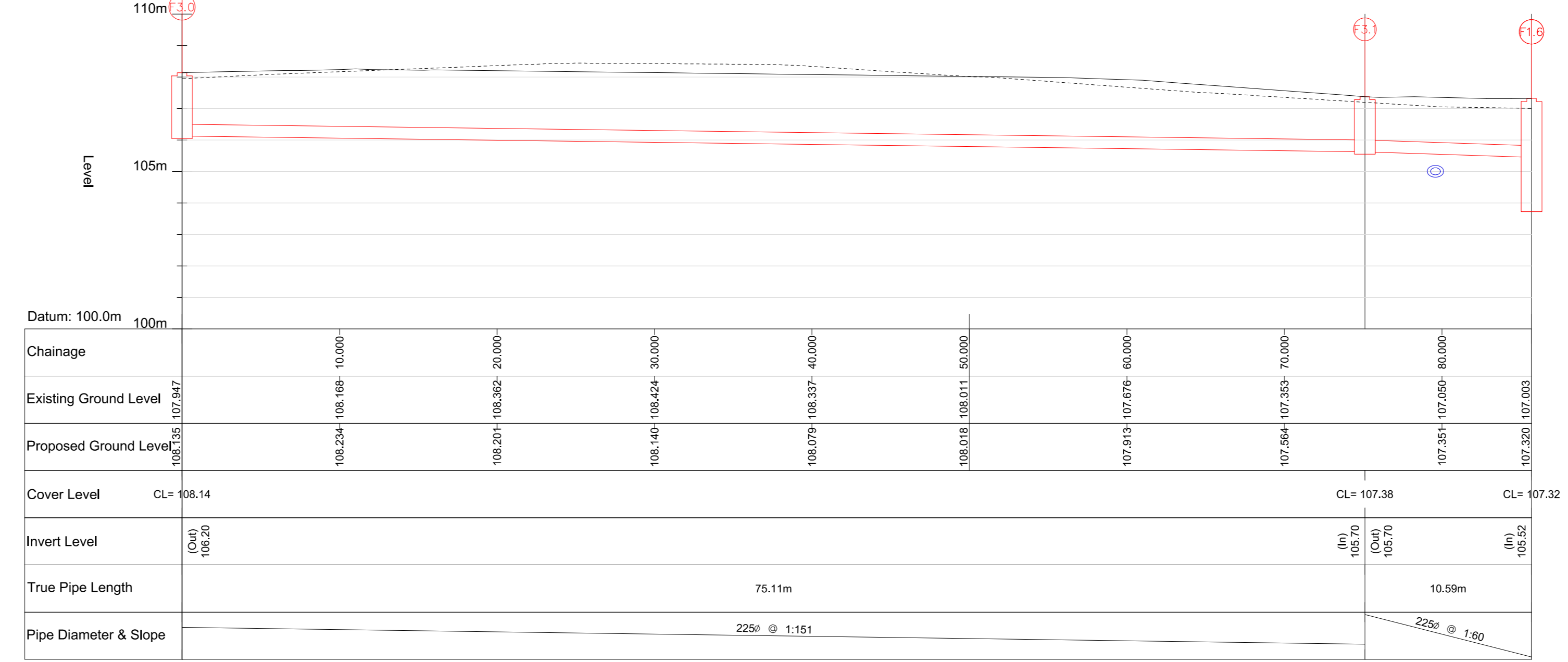
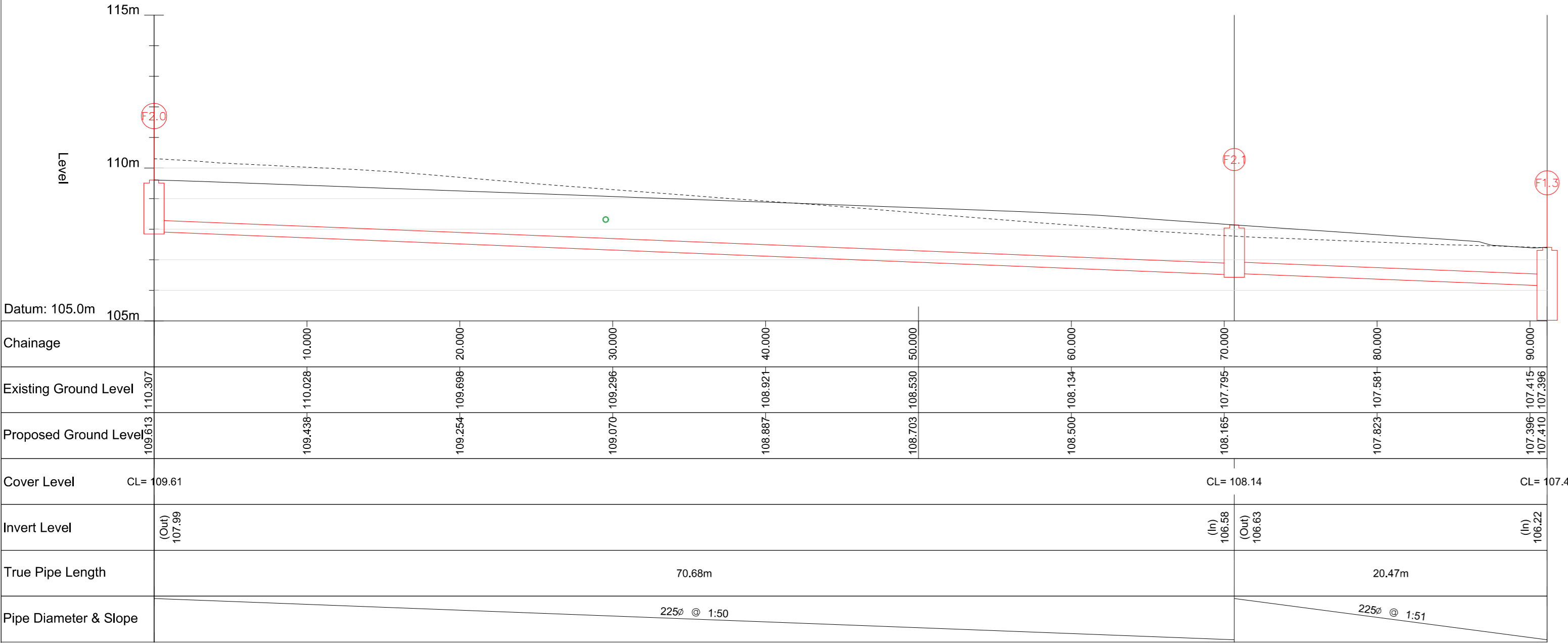
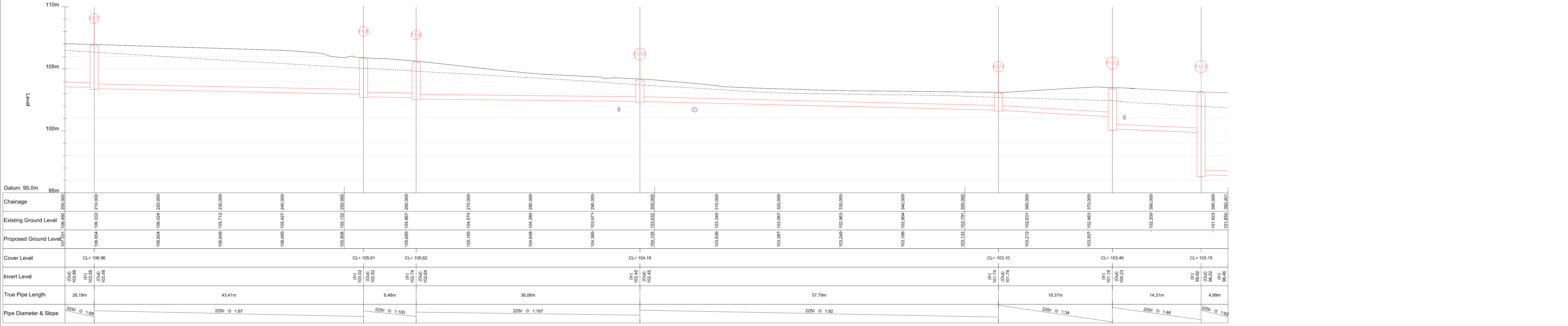
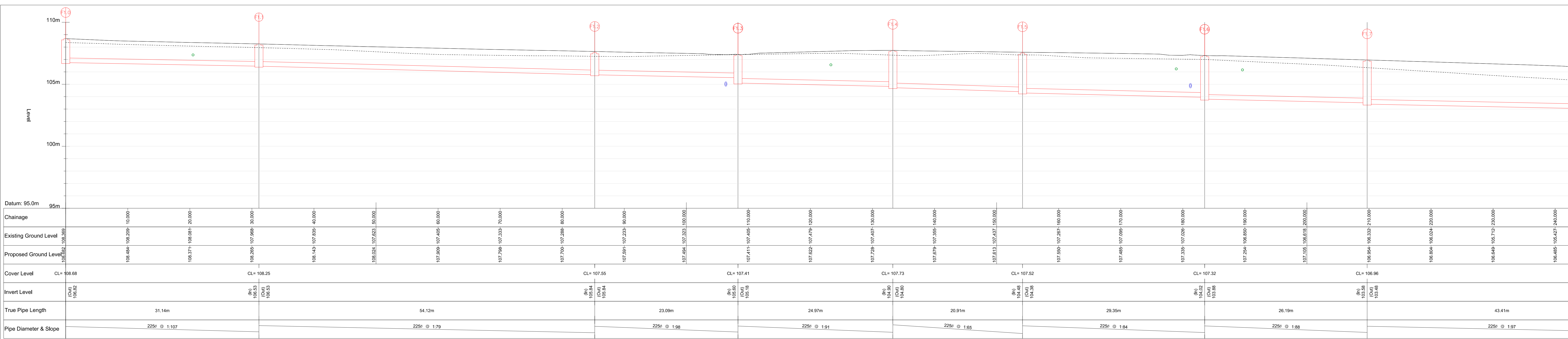
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COOKSTOWN ROAD, ENNISKERRY, CO. WICKLOW	18243

MODEL REFERENCE	MODEL REV	SUITABILITY
18243-C1020		

DRAWING TITLE **PROPOSED WATERMAIN LAYOUT**

DRAWING No.	ISSUE
18243-BMD-00-XX-DR-C-1030	PL2

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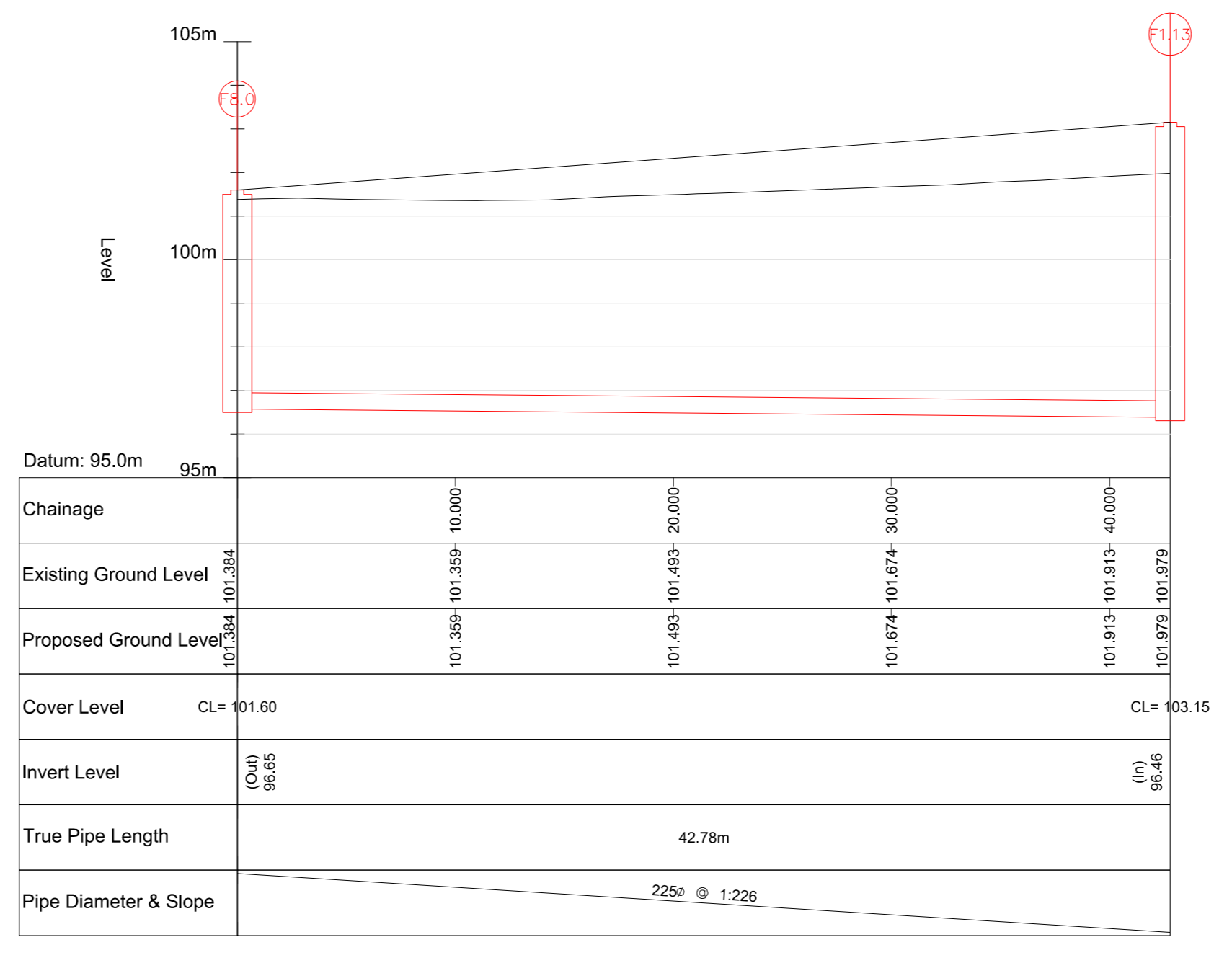
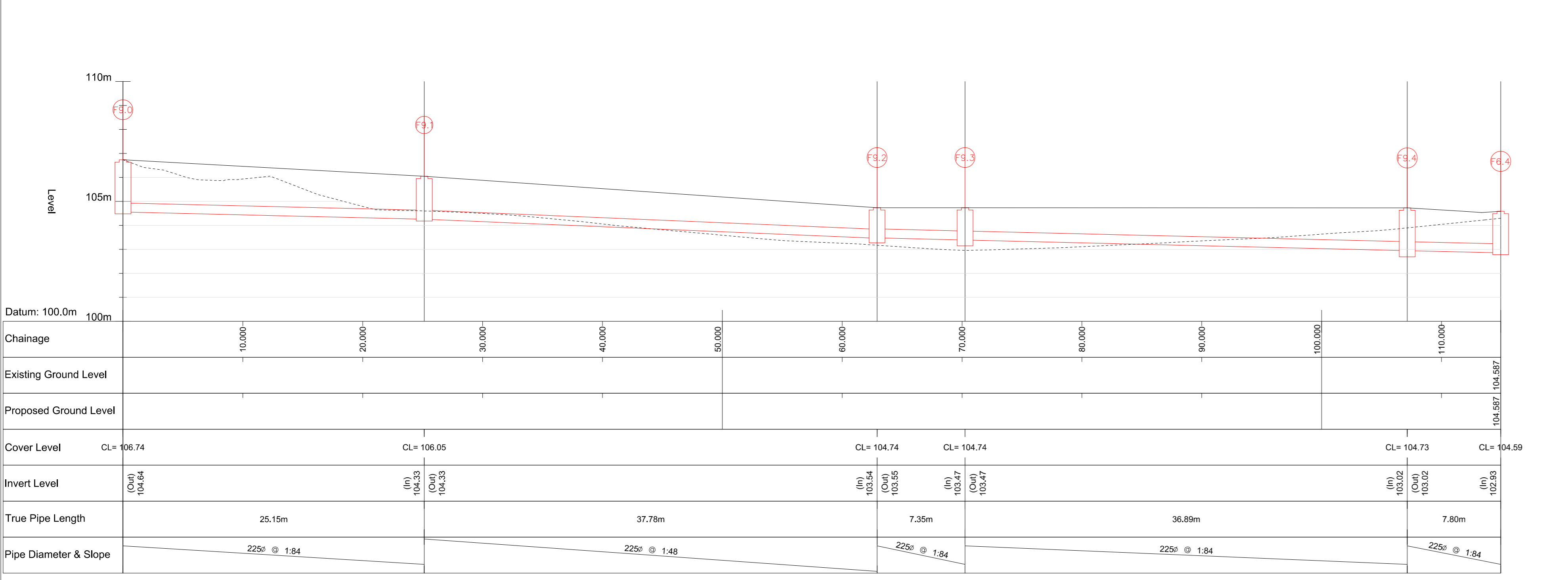
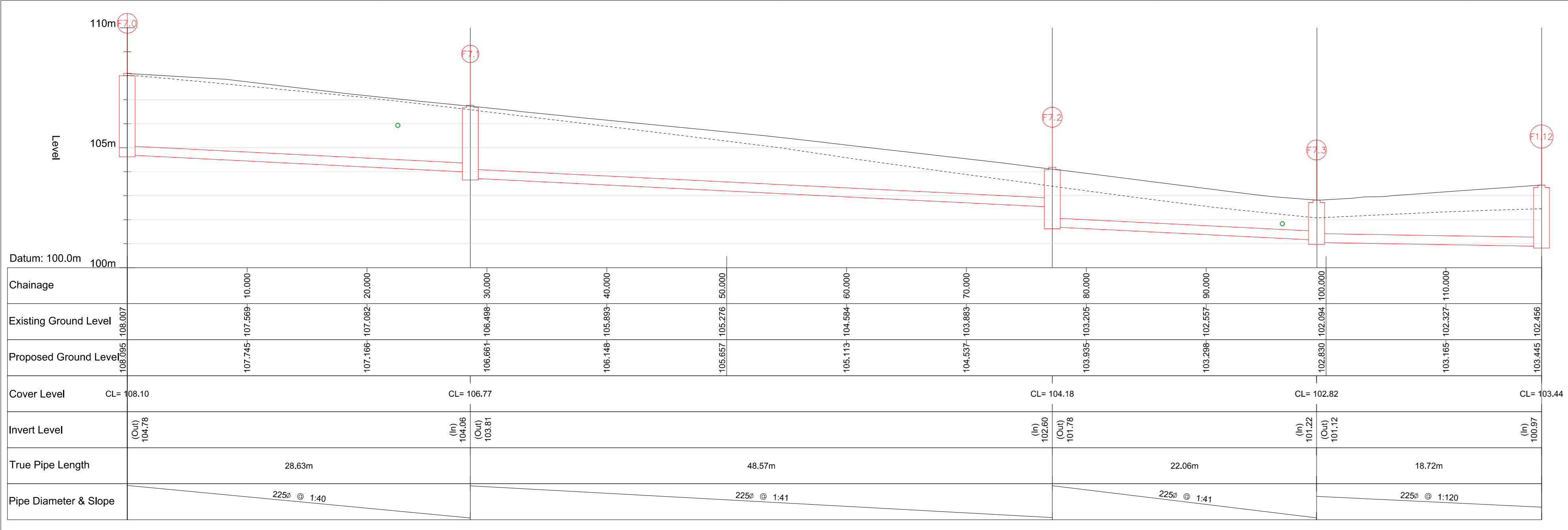
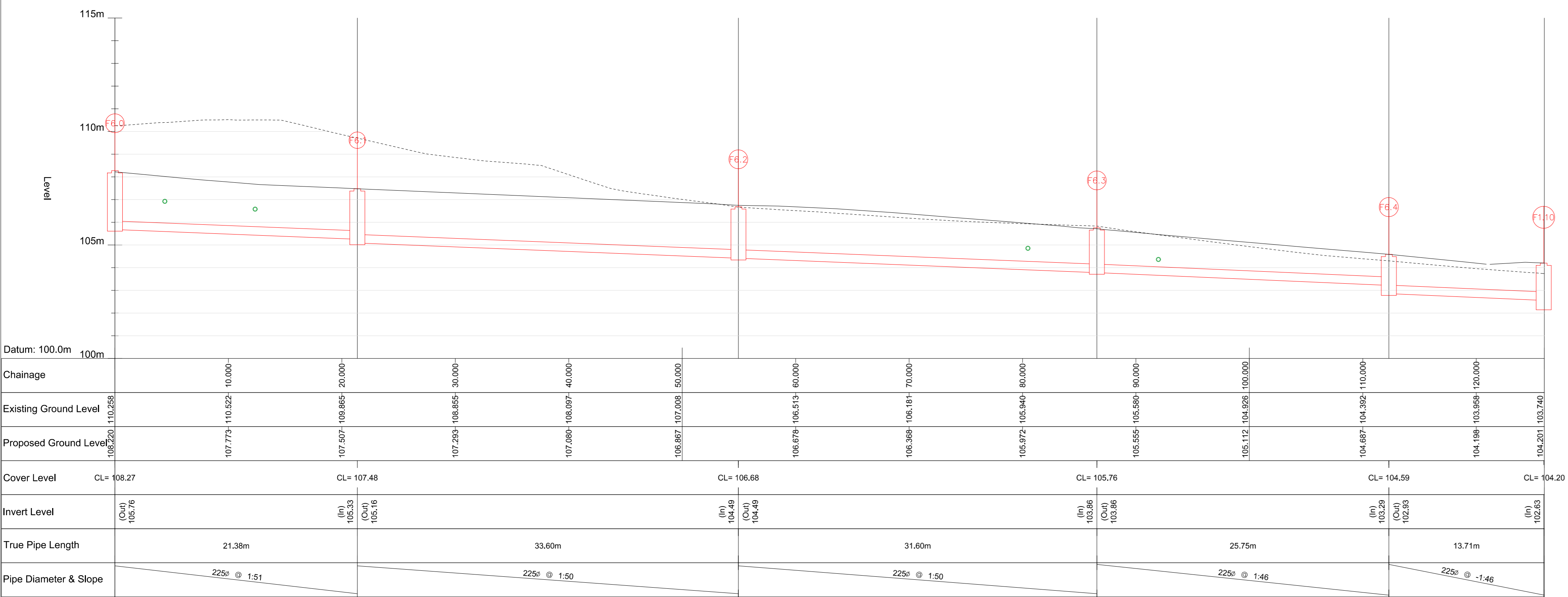
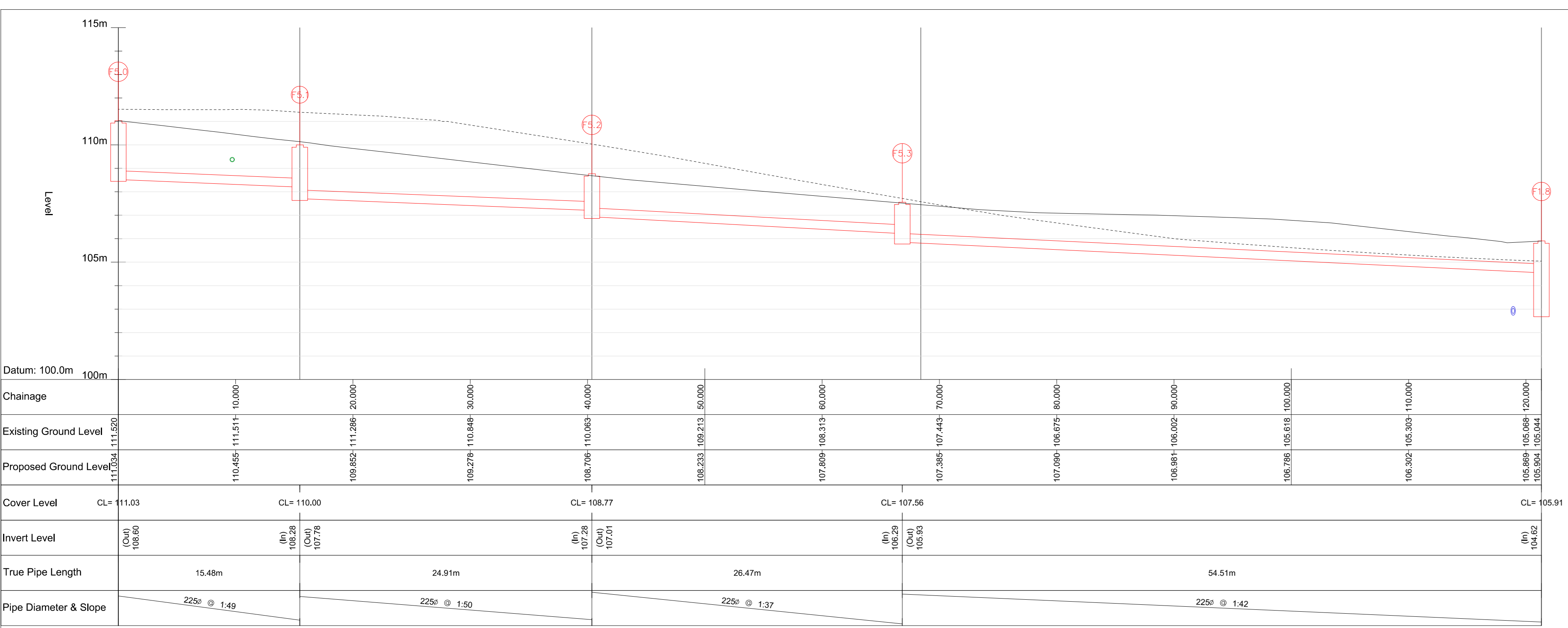


FOUL LONG SECTIONS

SCALE @ A2: H=1:250; V=1:50
SCALE @ A3: H=1:500; V=1:100

P2	06.08.20	ISSUED FOR PLANNING	108	108
P1	04.08.20	ISSUED FOR PLANNING	105	105
ISSUE	DATE	DESCRIPTION	DRS	PS
DRAWING STAGE		PLANNING		
CLIENT: CAIRN HOMES PROPERTIES LTD. PROJECT TITLE: COOKSTOWN ROAD, ENNISKERRY, CO. WICKLOW MODEL REFERENCE: 18243-C1920 DRAWING TITLE: PROPOSED FOUL DRAINAGE LONG SECTIONS PROJECT No: 18243 MODEL REV: P.5 SUITABILITY: 2.0				
DRAWING No: 18243-BMD-00-XX-DR-C-1122 SHEET: PL2				

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FOUL LONG SECTIONS

SCALE @ A2: H= 1:250 V= 1:50
SCALE @ A3: H= 1:500 V= 1:100

ISSUE	DATE	DESCRIPTION	ISSUED BY	CHKD BY
P1	04.08.20	ISSUED FOR PLANNING		

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PROJECT TITLE: **COOKSTOWN ROAD, ENNISKERRY, CO. WICKLOW**

PROJECT No: **18243**

MODEL REFERENCE: **18243-C1920**

MODEL REV: SUITABILITY:

DRAWING TITLE: **PROPOSED FOUL DRAINAGE LONG SECTIONS**

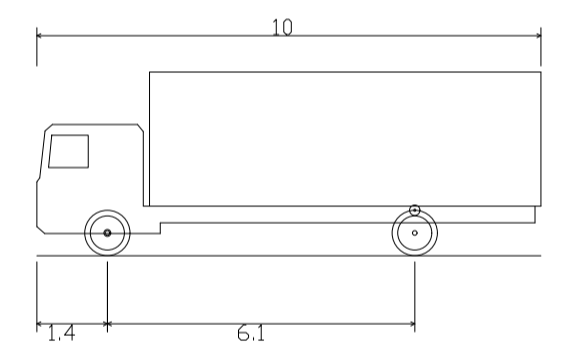
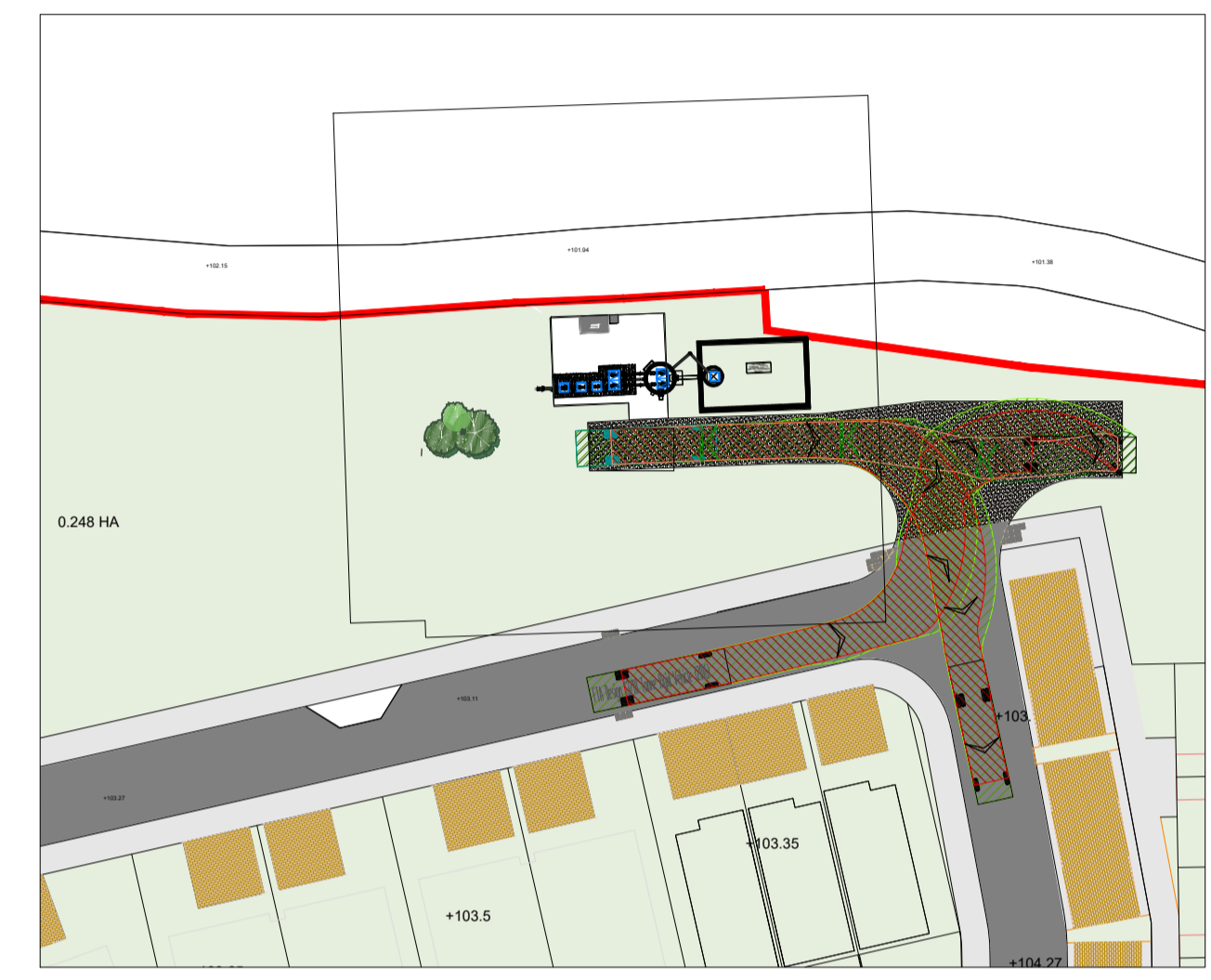
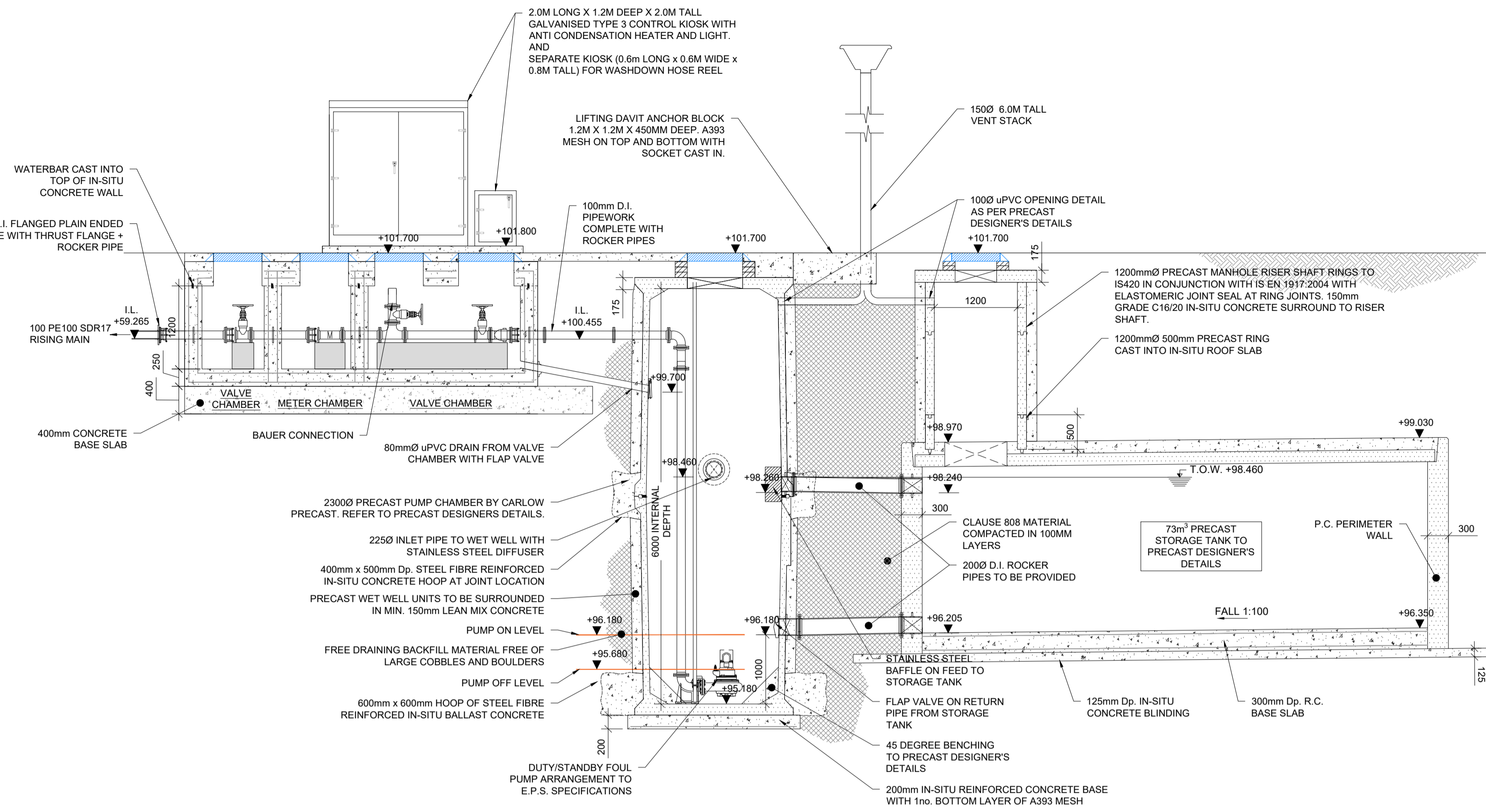
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NOTES

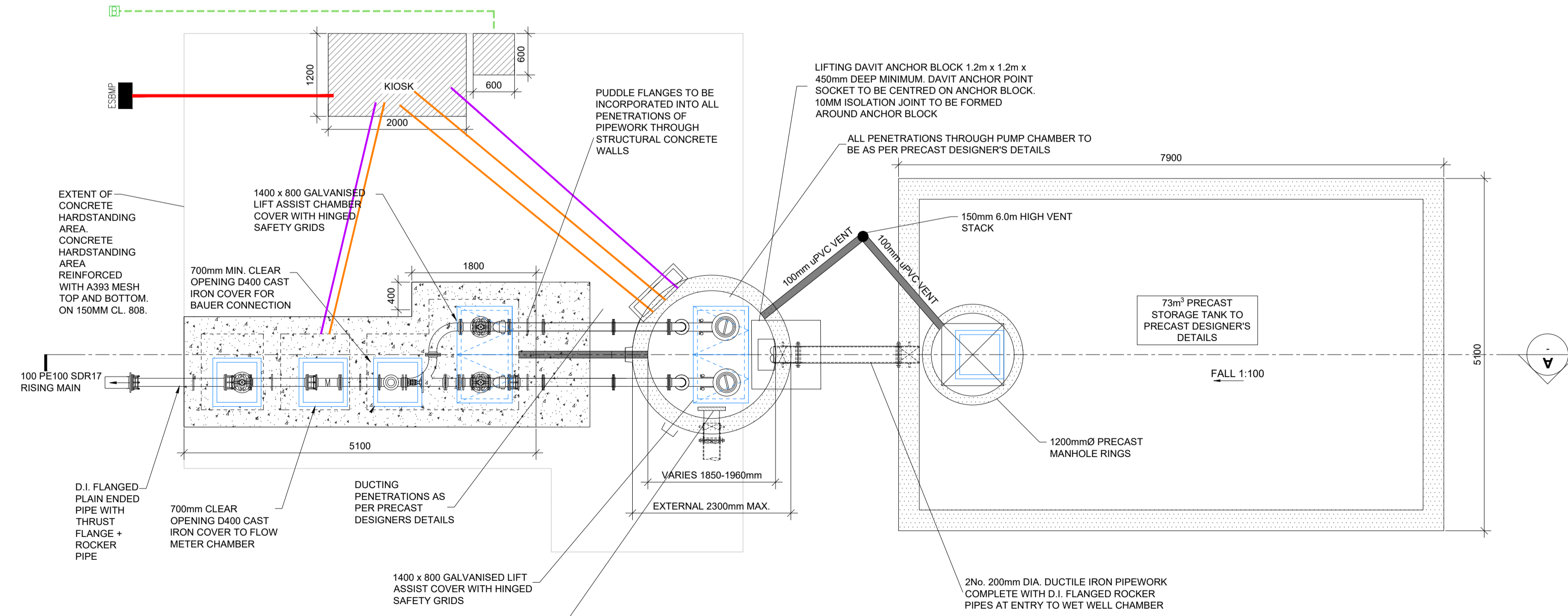
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LEGEND

- ESB DUCT (125mm)
- POWER DUCT (100mm)
- SIGNAL DUCT (100mm)
- ESB MINI-PILLAR
- 1" WATERMAIN CONNECTION AND BOUNDARY BOX



FTA Design 13/18 Tonne Rigid Vehicle (2016)
 Overall Length 10.000m
 Overall Width 2.550m
 Overall Body Height 3.450m
 Min Body Ground Clearance 0.440m
 Track Width 2.470m
 Lock-to-lock time 3.00s
 Curb to Curb Turning Radius 11.000m



- NOTES:**
- ALL KIOSKS AND COVERS TO BE LPS 1175 SR3 SECURITY RATED.
 - C250 RATED 14x8 SAFETY LIFT ASSIST ACCESS COVERS (LPS 1175 SR3 SECURITY RATED) COMPLETE WITH FALL ARREST CAGES TO BE PROVIDED ON WET WELL AND VALVE CHAMBER. ALL OTHER LIDS TO BE CAST IRON D400 RATED WITH CLEAR OPENING OF 700mm x 700mm.
 - PRECAST ELEMENTS BE SURROUNDED IN CONCRETE AS SHOWN.
 - 45 DEGREE BENCHING TO BE PROVIDED IN WET WELL TOWARDS PUMPS.
 - DN225 OVERFLOW AND RETURN PIPE TO BE INSTALLED WITH ROCKER PIPES FITTED.
 - STAINLESS STEEL DIFFUSER TO BE PROVIDED ON MAIN GRAVITY INLET TO WET WELL SLUMP.
 - HAND OPERATED PENSTOCK INLET VALVE TO BE PROVIDED IN FINAL FOUL MANHOLE (F1.10) UPSTREAM OF WET WELL.
 - MIN. 500mm STRAIGHT PIPE REQUIRED PRIOR AND POST F.M. BEFORE ANY VALVES. ISOLATION VALVE TO BE PROVIDED AFTER FM PRIOR TO RISING MAIN.
 - PUBLIC STREET LIGHTING FOR THE DEVELOPMENT SHALL PROVIDE MIN. 100 LUX AT GROUND LEVEL OF PUMPING STATION.
 - RISING MAIN TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
 - RISING MAIN DISCHARGE MANHOLE TO BE CONSTRUCTED IN ACCORDANCE WITH DRAWING NO. 1212.

P2	31.07.20	ISSUED FOR IRISH WATER REVIEW	TML	POD	AC
P1	26.08.19	ISSUED FOR COMMENT	PS	POD	BM
ISSUE	DATE	DESCRIPTION	DRN	ORIG	P.E.

PRELIMINARY

BM Dublin Office: Sandwith House, 52-54 Lower Sandwith Street, Dublin 2, Ireland. Tel: (01) 677 3200 Fax: (01) 677 3164
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Consulting Engineers, Civil, Structural, Project Management. E-mail: bmce@bmce.ie Web: www.bmce.ie

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CLIENT CAIRN HOMES PROPERTIES LTD.	
PROJECT TITLE COOKSTOWN ROAD, ENNISKERRY, CO. WICKLOW	BM PROJECT No. 18243
MODEL REFERENCE	MODEL REV. SUITABILITY
DRAWING TITLE PROPOSED FOUL PUMPING STATION DETAILS	
DRAWING No. 18243-BMD-00-XX-DR-C-1211	ISSUE P2