



add in location of water
buts

private drainage - gullies, ACO drains etc., on
driveways

put on finished floor Levels? show they are 150mm above
surrounding ground. Put an arrow on the driveways to
show falls and add any infrastructure to intercept surface
water if driveways falling towards properties.

what are the slopes of the
gardens?

Surface Water Plot Drainage			Foul Water Plot Drainage		
MH Name	Cover Level (m AOD)	Invert Level (m AOD)	MH Name	Cover Level (m AOD)	Invert Level (m AOD)
MH-S01a	204.050	203.300	MH-F01a	204.050	203.350
MH-S01b	204.050	203.253	MH-F01b	204.050	203.231
MH-S01c	204.050	203.167	MH-F01c	204.050	202.966
MH-S01d	204.050	203.015	MH-F02a	203.850	203.150
MH-S01e	204.050	203.300	MH-F02b	203.850	203.150
MH-S01f	204.050	202.979	MH-F02c	203.850	202.883
MH-S02a	203.850	203.100	MH-F03a	203.450	202.750
MH-S02b	203.850	202.948	MH-F03b	203.450	202.750
MH-S02c	203.850	202.858	MH-F03c	203.450	202.480
MH-S02d	203.850	202.797	MH-F04a	203.050	202.350
MH-S02e	203.850	202.687	MH-F04b	203.050	202.350
MH-S02f	203.850	202.636	MH-F04c	203.050	202.096
MH-S03a	203.450	202.700	MH-F05a	202.500	202.800
MH-S03b	203.450	202.562	MH-F05b	202.500	202.800
MH-S03c	203.450	202.474	MH-F05c	202.500	202.535
MH-S03d	203.450	202.394	MH-F06a	204.200	203.500
MH-S03e	203.450	202.301	MH-F06b	204.200	203.500
MH-S04a	203.050	202.300	MH-F07a	204.000	203.300
MH-S04b	203.050	202.161	MH-F07b	204.000	203.300
MH-S04c	203.050	202.081	MH-F07c	204.000	203.043
MH-S04d	203.050	202.997	MH-F08a	203.650	202.950
MH-S04e	203.050	201.903	MH-F08b	203.650	202.950
MH-S05a	202.500	201.750	MH-F08c	203.650	202.697
MH-S05b	202.500	201.610	MH-F09a	203.250	202.550
MH-S05c	202.500	201.522	MH-F09b	203.250	202.550
MH-S05d	202.500	201.459	MH-F09c	203.250	202.284
MH-S05e	202.500	201.380			
MH-S06a	204.200	203.450			
MH-S06b	204.200	203.401			
MH-S06c	204.200	203.319			
MH-S06d	204.200	203.168			
MH-S06e	204.200	203.084			
MH-S07a	204.000	203.250			
MH-S07b	204.000	203.171			
MH-S07c	204.000	203.091			
MH-S07d	204.000	203.250			
MH-S07e	204.000	202.988			
MH-S08a	203.650	202.900			
MH-S08b	203.650	202.817			
MH-S08c	203.650	202.744			
MH-S08d	203.650	202.900			
MH-S08e	203.650	202.641			
MH-S09a	203.250	202.500			
MH-S09b	203.250	202.418			
MH-S09c	203.250	202.346			
MH-S09d	203.250	202.500			
MH-S09e	203.250	202.235			

Surface Water Plot Drainage to be 150mm diameter laid
at a minimum of 1 in 80. ✓

Foul Water Plot Drainage to be 100mm diameter laid at
a minimum of 1 in 40.

All other pipe sizes and gradients as per drawing.

- NOTES
1. Dimensions are in mm unless otherwise stated.
 2. Levels are in m AOD unless otherwise stated.
 3. This drawing has been produced to support a planning application for the named scheme. It should not be relied upon for any other purpose.
 4. Geocellular Storage System to be detailed and installed as per manufacturers guidelines.

- Key
- Site Boundary
 - Permeable Paving
 - Cellular Storage
 - Proposed Surface Water Drainage
 - Proposed Foul Water Drainage
 - Proposed Combined Drainage
 - Hydro-Brake Flow Control Chamber

water butts

Reference Drawings

Wherever possible, risk is designed out during the design process. Where this is not possible, the risk will be minimised and any significant residual risk will be noted and indicated by a hazard warning triangle.

1. Connection into a live asset invert to be confirmed by survey prior to connection.
2. Deep Excavation.

C	15.01.2026	FINAL - For Planning	FEG
B	15.11.2025	FINAL - For Planning	FEG
A	24.10.2025	DRAFT - For Discussion	FEG
Rev	Date	Revision notes	By

NOT FOR CONSTRUCTION

Status For Planning

Project Kingsley Holt Residential Development

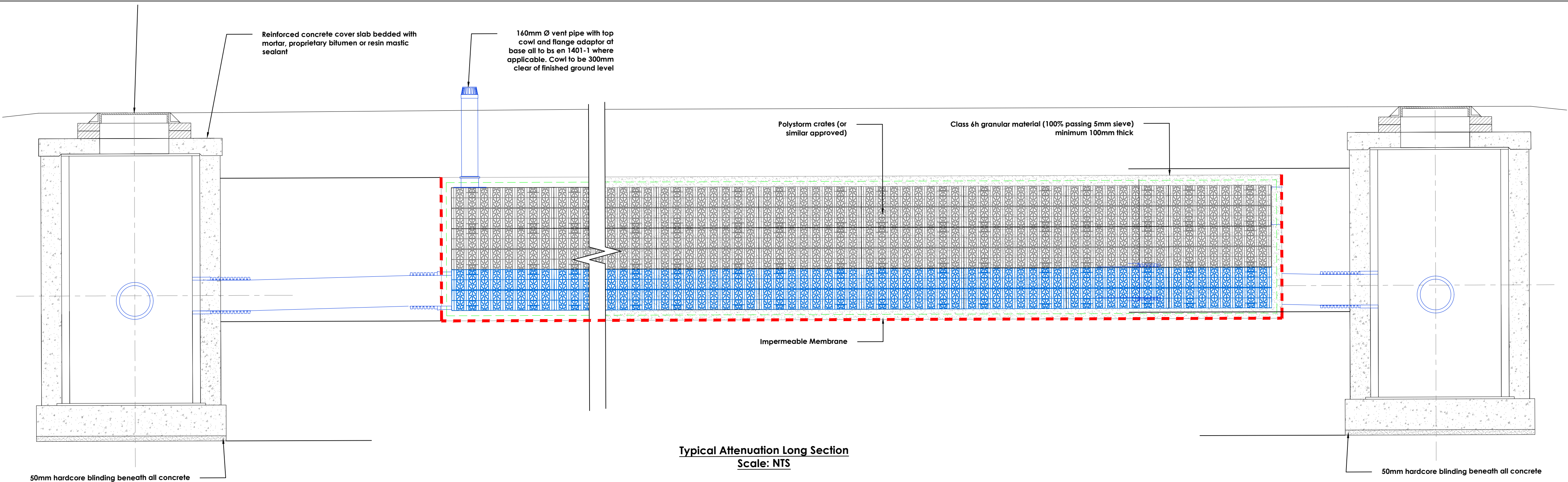
Title Proposed Drainage Strategy

Client Hammonds Construction Limited

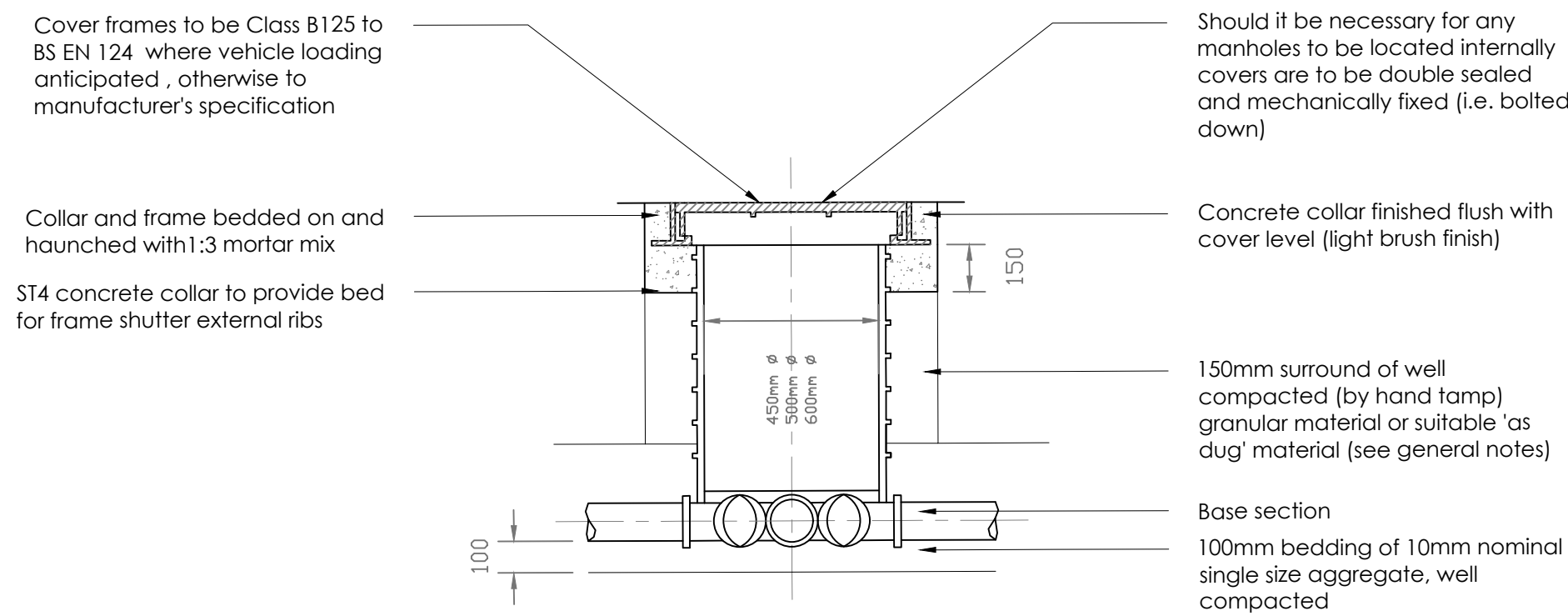
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Drawn By	Publish Date	Scale(s)
FEG	24.10.2025	1:250
Drawing no.	Revision	
00154/KIN/DR/1003	C	



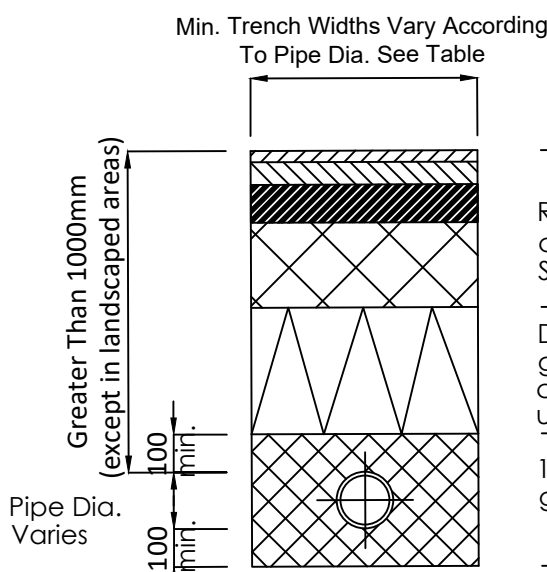
Typical Attenuation Long Section
Scale: NTS



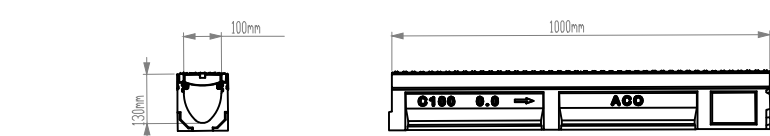
Inspection Chamber
Scale: NTS

Trench Widths:	
Pipe Dia. (mm)	Min. Trench Width (mm)
100	550
150	600
225	700
300	750
375	1050
450	1150

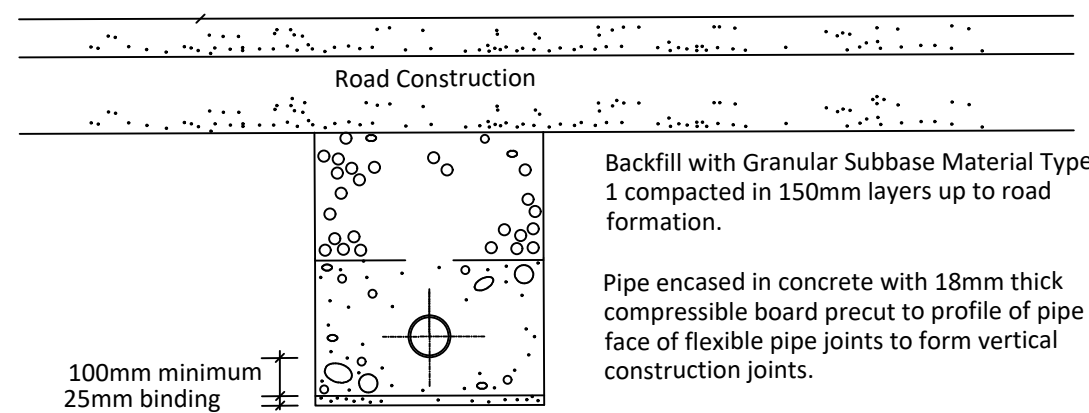
Note:
No Mechanical compaction techniques to be used within 300mm of the crown of all pipework.



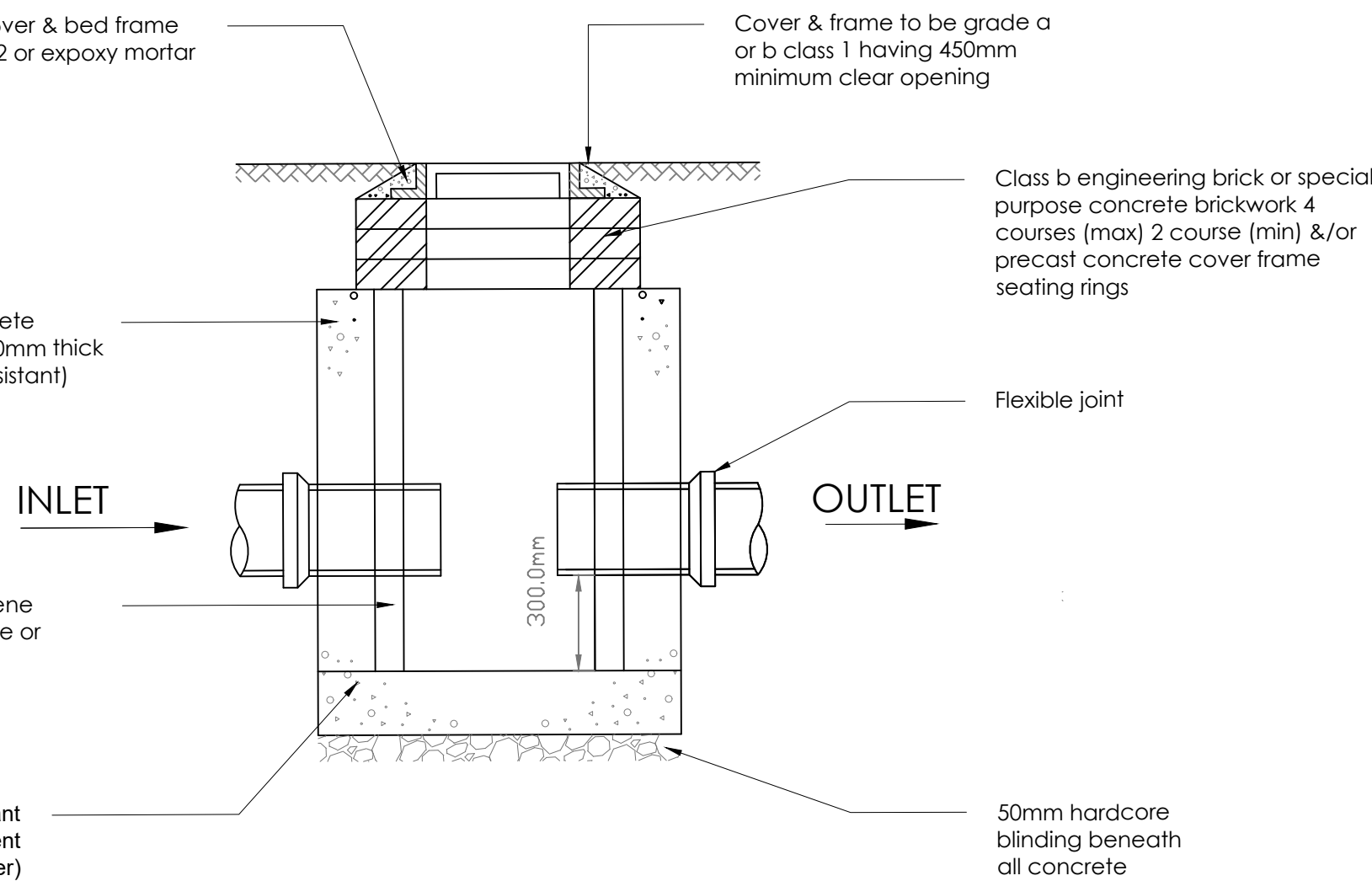
Pipe Bedding Detail
Type S



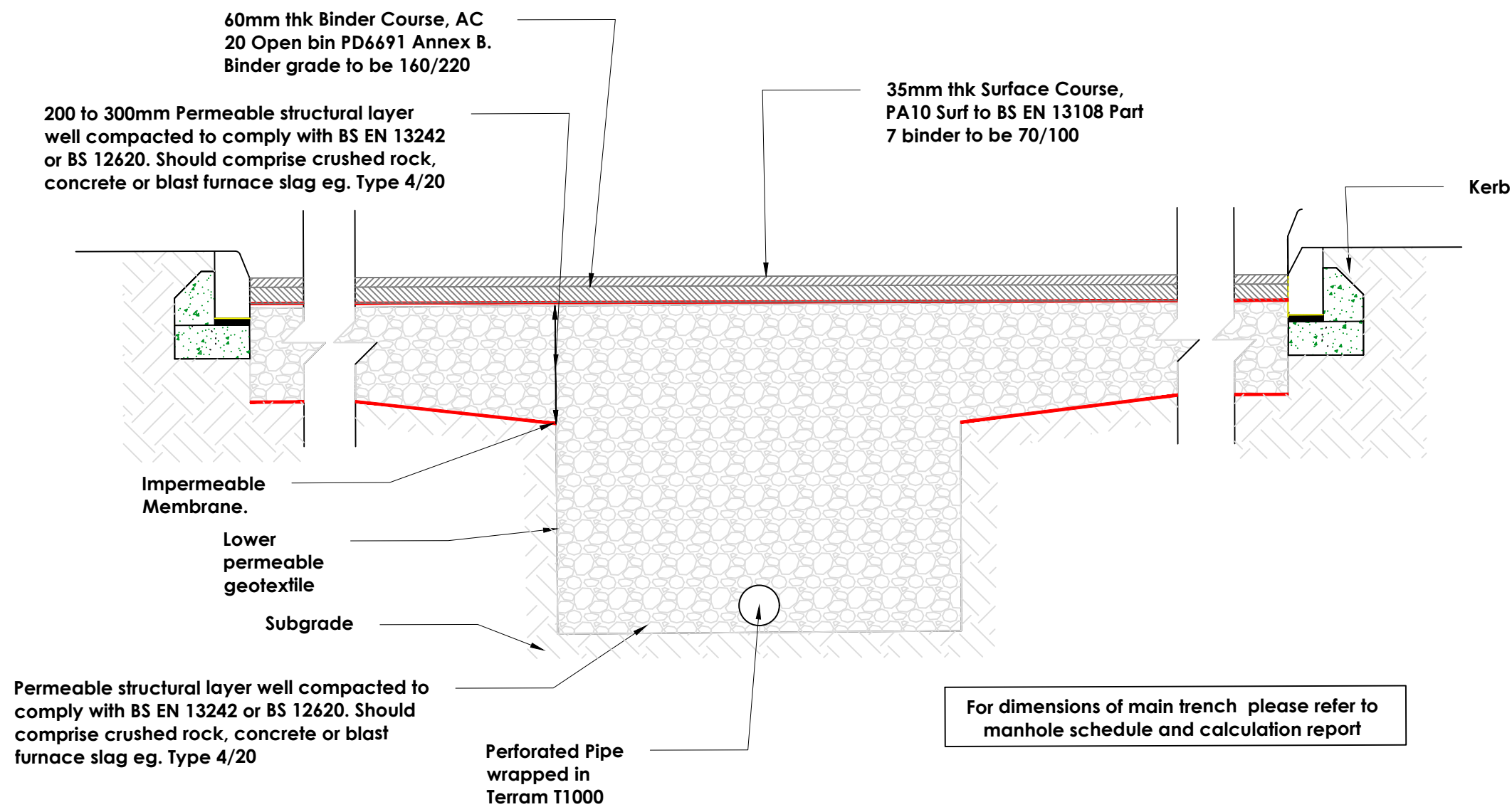
ACO Civic Drain C100 0.0
Scale: NTS



Pipe Bedding Detail
Type Z



Typical Catchpit Detail
Scale: NTS



Typical Section through Permeable Paving
Scale: NTS

- NOTES
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 4. In the absence of a proposed level strategy, levels have been based on existing topographical survey.
 5. Connections into main sewer to be confirmed via applications to Severn Trent.

Key

Reference Drawings

Wherever possible, risk is designed out during the design process. Where this is not possible, the risk will be minimised and any significant residual risk will be noted and indicated by a hazard warning triangle.

1. Connection into Existing Sewer



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Status For Planning

Project Kingsley Holt Residential Development

Title Standard Details
Sheet 1 of 2

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Drawn By	Publish Date	Scale(s)
FEG	15.11.2025	1:50
Drawing no.		Revision
00154/KIN/DR/1004		A

NOTES

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Key

Reference Drawings

Wherever possible, risk is designed out during the design process. Where this is not possible, the risk will be minimised and any significant residual risk will be noted and indicated by a hazard warning triangle.

1. Connection into Existing Sewer



A	15.11.2025	FINAL - For Planning	FEG
Rev	Date	Revision notes	By

NOT FOR CONSTRUCTION

Status For Planning

Project Kingsley Holt Residential Development

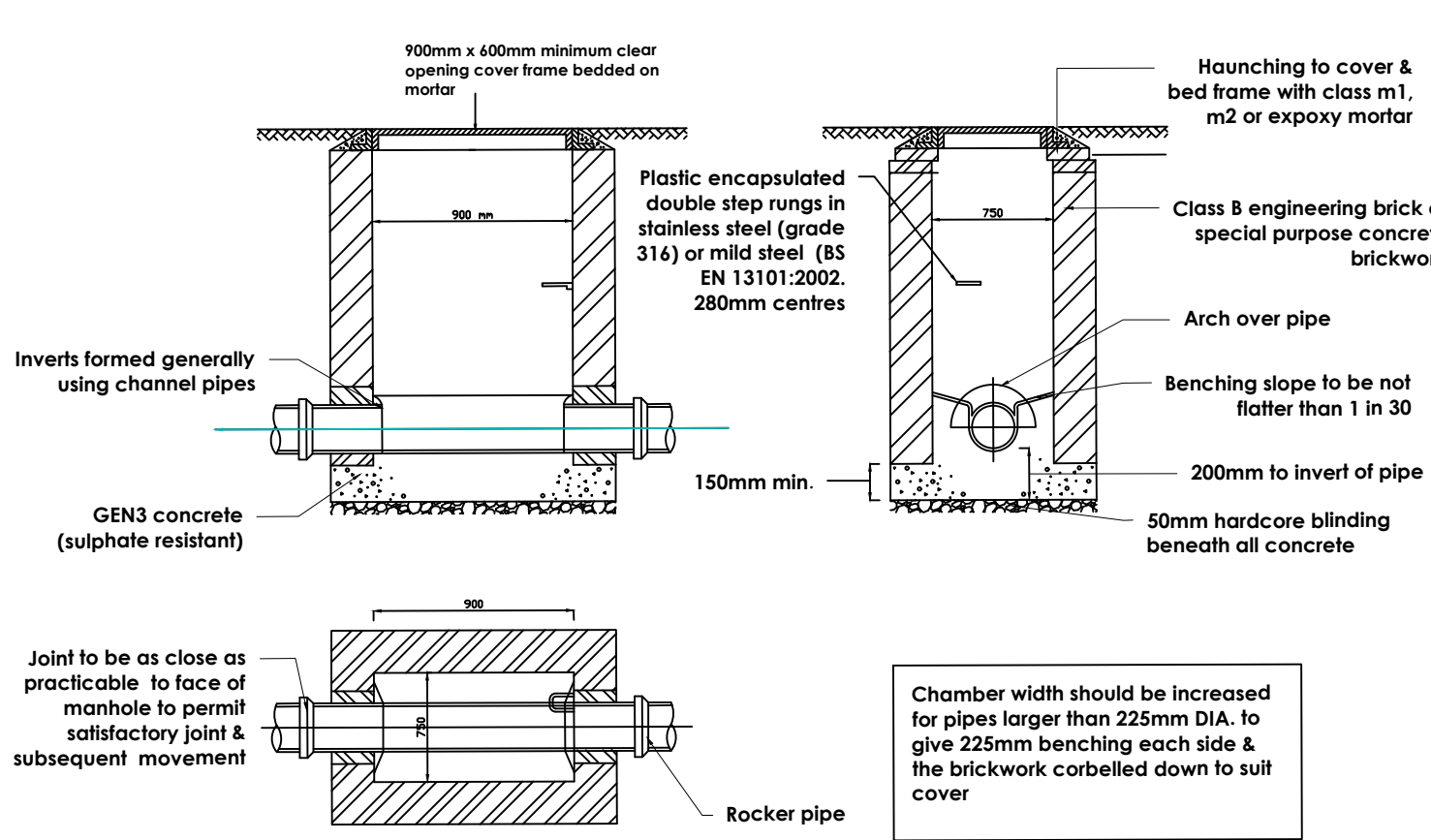
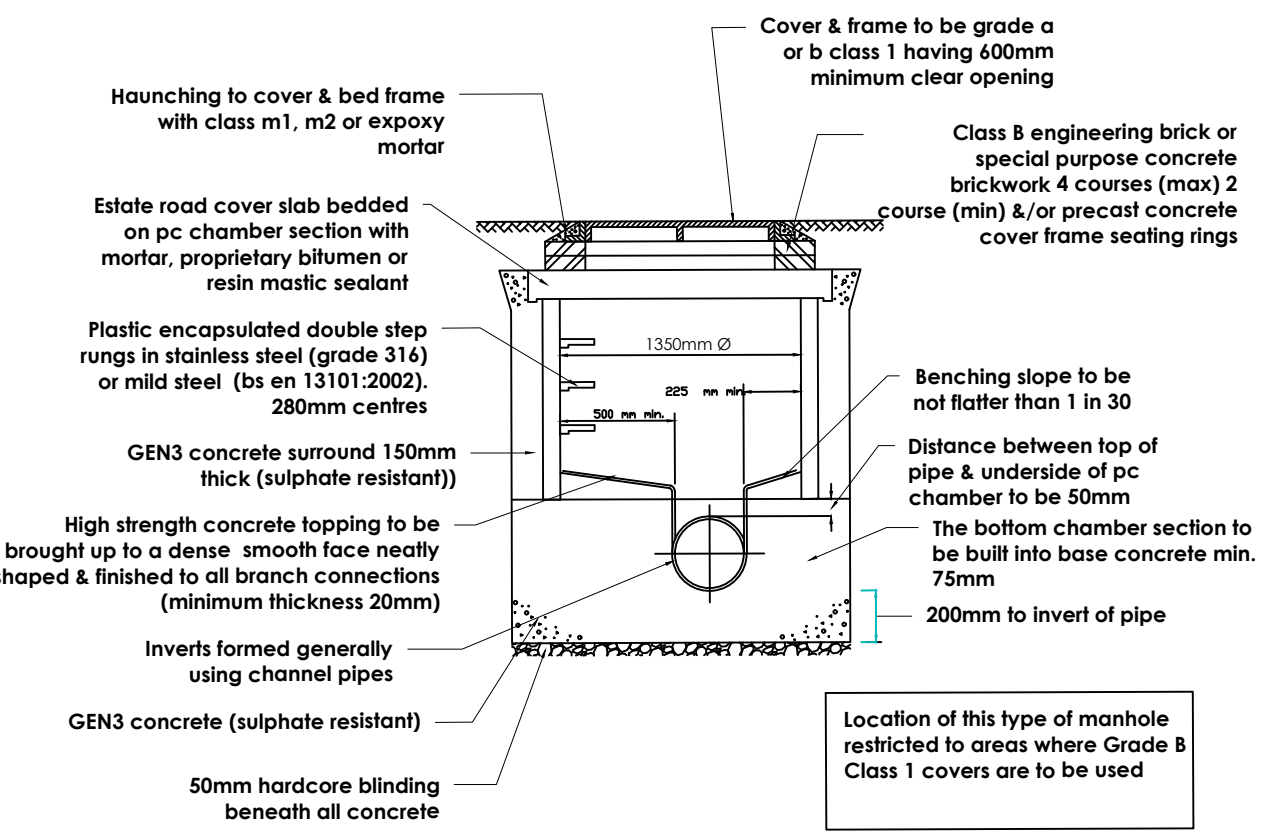
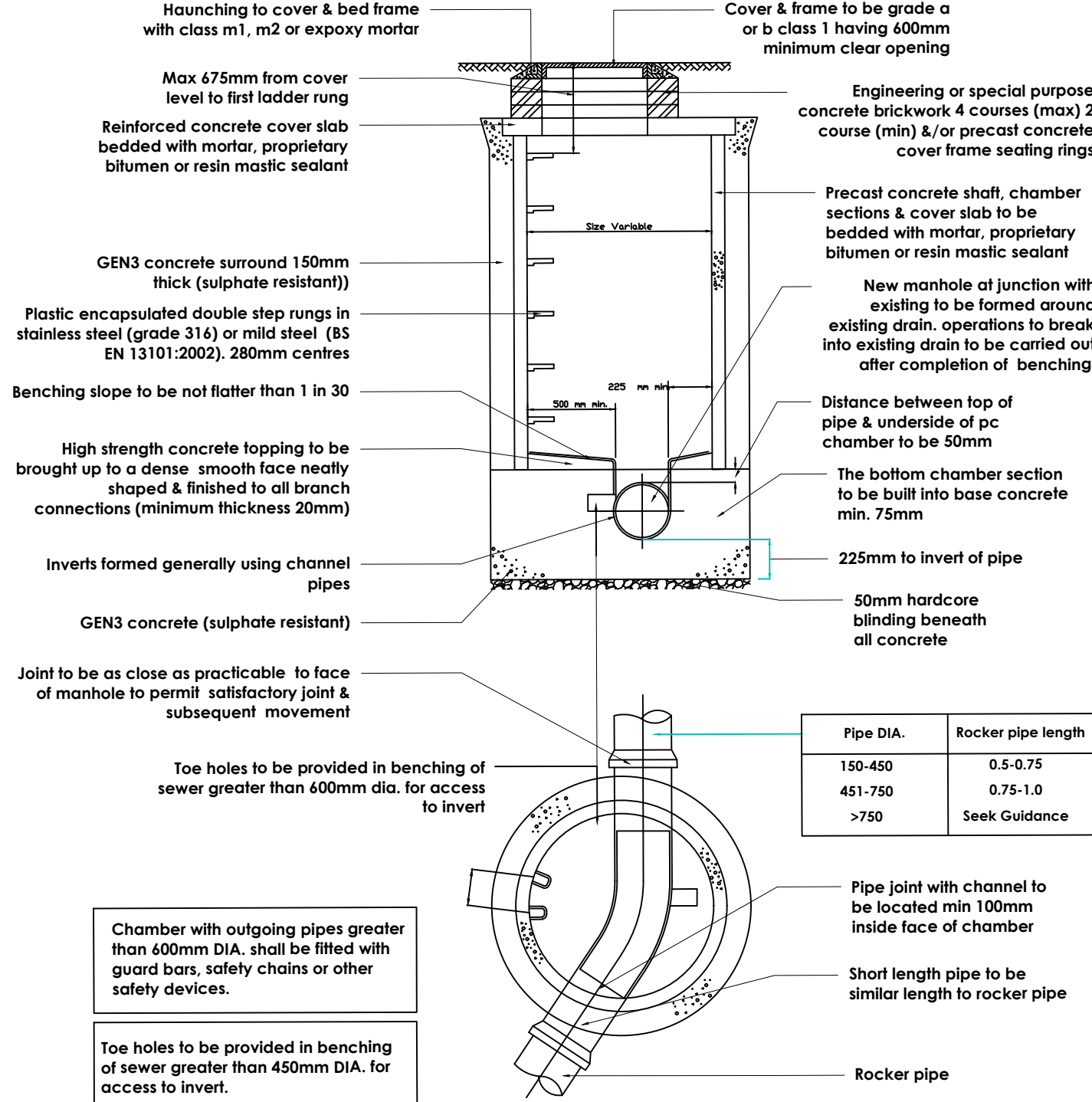
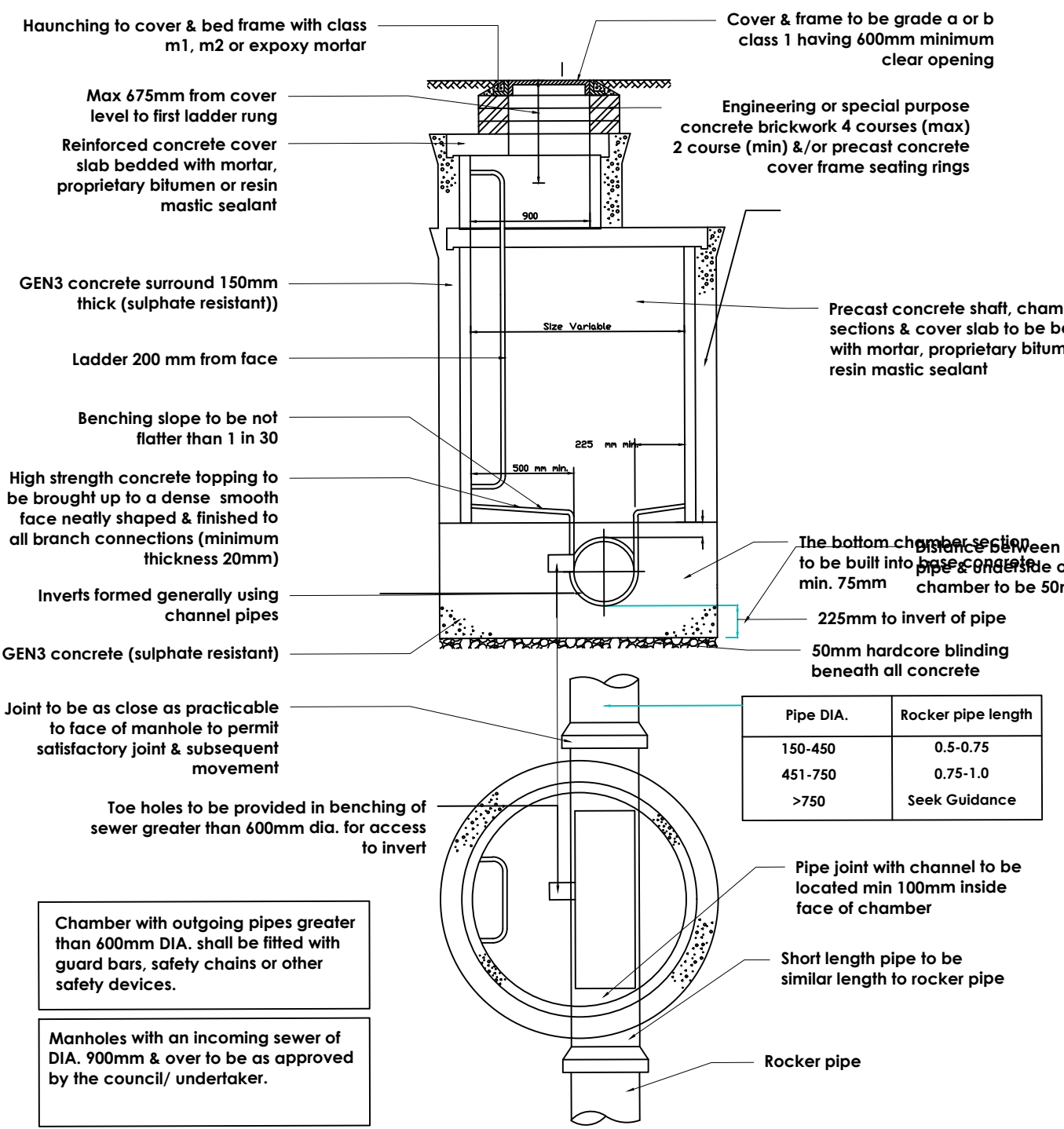
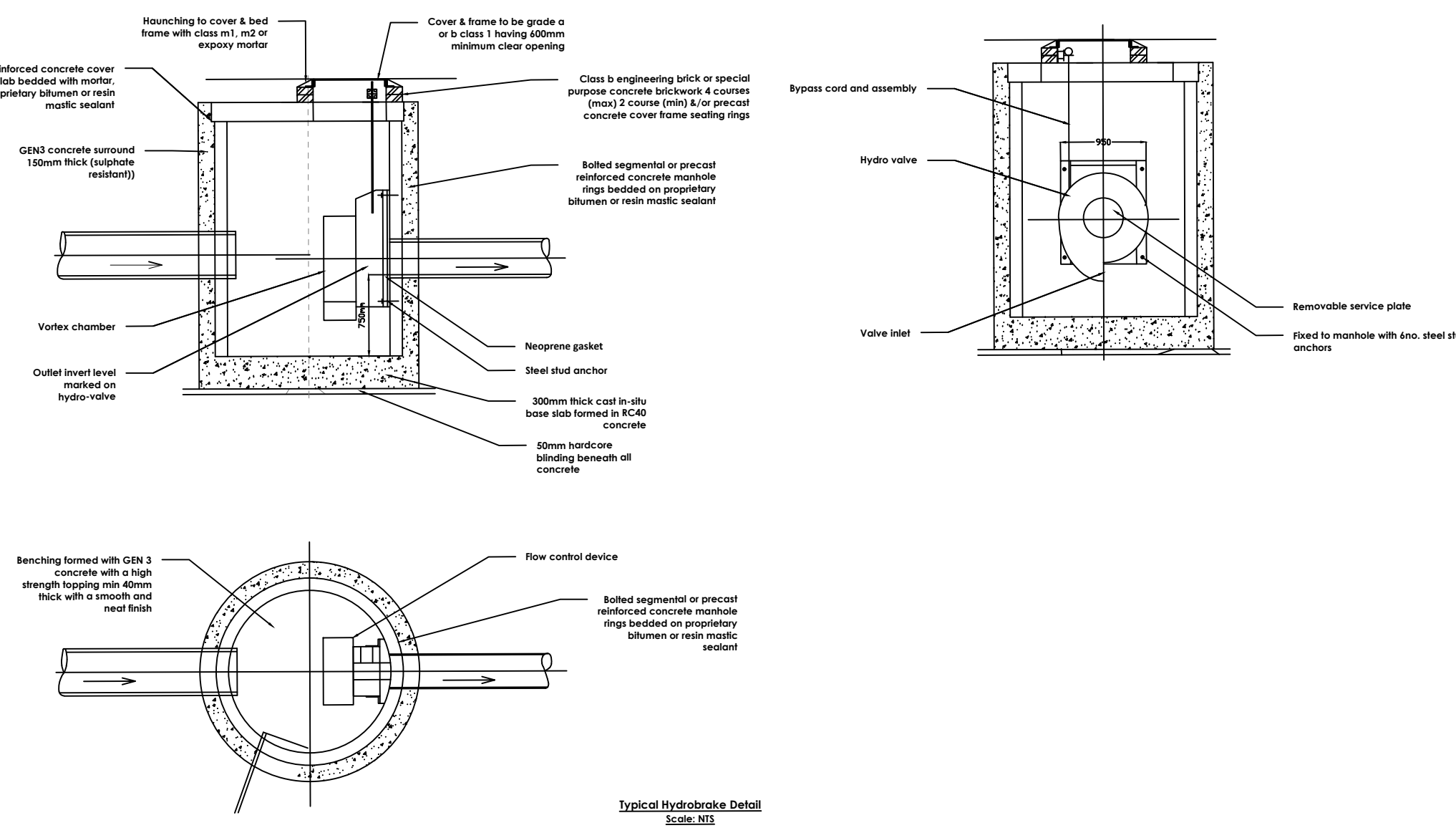
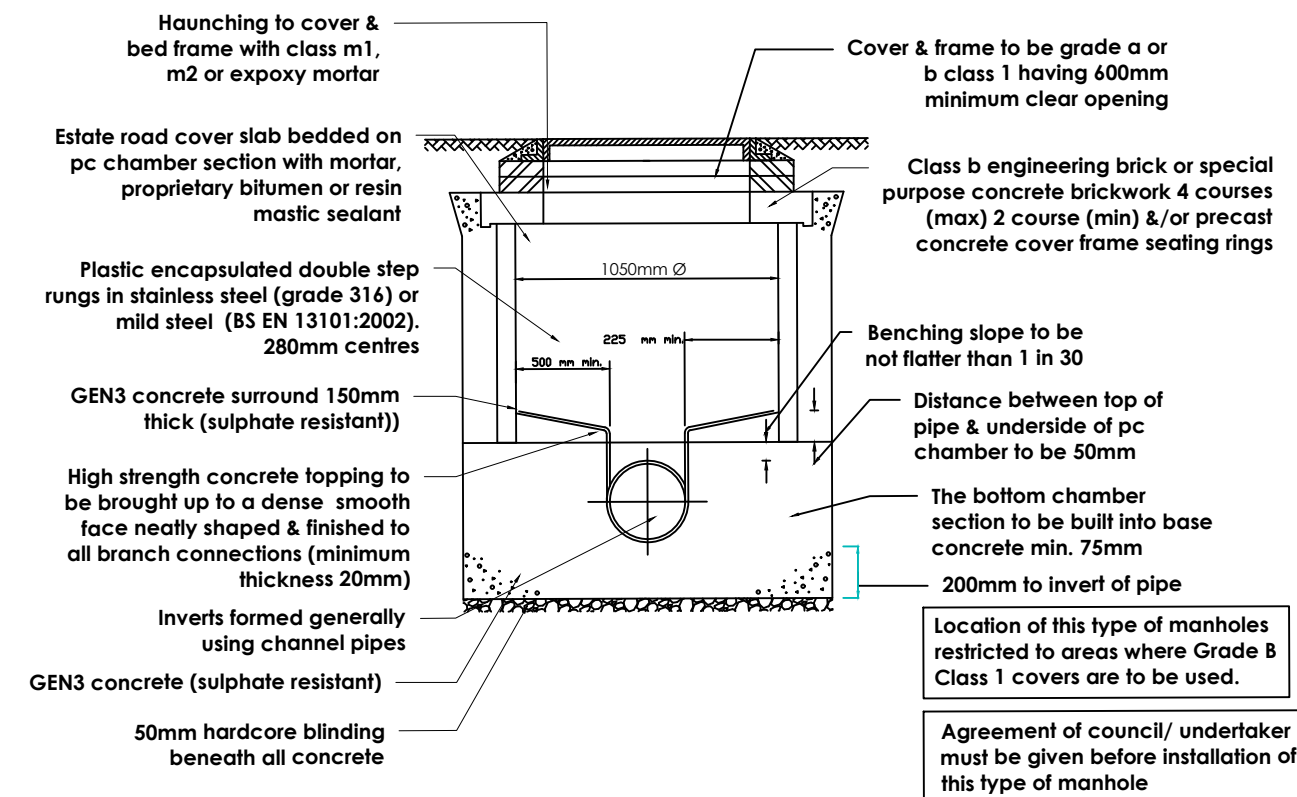
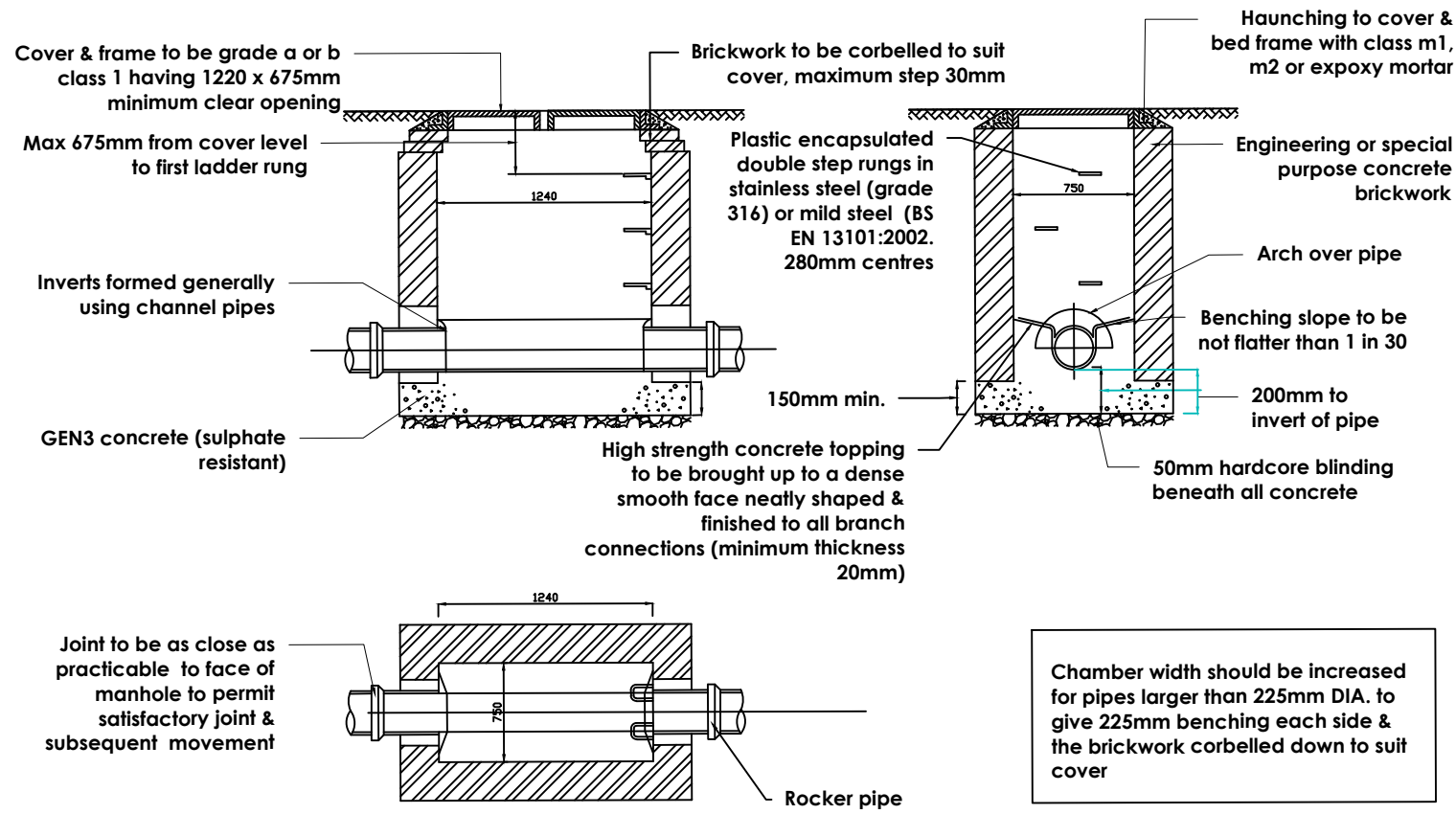
Title Standard Details Sheet 2 of 2

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FEG	15.11.2025	1:50
Drawing no.	Revision	
00154/KIN/DR/1005		A



Do not scale



Appendix M – Foul Calculations

Project Number: 00154
Project Name: Kingsley Residential Development
Calculation: Foul Drainage
Originator: FEG
Rev: A



Pipe Number	Upstream Manhole				Downstream Manhole				Flow in pipe	Cumulative Flow	Assumed Pipe Size	Length	Gradient	Full Bore Velocity	Full Bore Flow	Prop Discharge Coefficient	Proportional Velocity	Proportional Depth of Flow	Actual Velocity	Comment
	No.	Cover Level	Invert	Depth	No.	Cover Level	Invert	Depth												
F1.000	MHF01	203.900	202.600	1.20	MHF02	203.490	202.395	0.99	0.05	0.05	100	8.2	40	1.068	8.388	0.006	0.283	0.06	0.30	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F1.001	MHF02	203.490	202.395	0.99	MHF03	203.370	201.899	1.37	0.05	0.1	100	19.9	40	1.068	8.388	0.012	0.345	0.08	0.37	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F1.002	MHF03	203.370	201.899	1.37	MHF04	202.870	201.519	1.25	0.05	0.15	100	15.2	40	1.068	8.388	0.018	0.4	0.021	0.43	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F1.003	MHF04	202.870	201.519	1.25	MHF05	202.610	201.113	1.40	0.05	0.2	100	16.3	40	1.068	8.388	0.024	0.4	0.021	0.43	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F1.004	MHF05	202.610	201.113	1.40	MHF06	202.600	200.927	1.57	0.05	0.25	100	7.5	40	1.068	8.388	0.030	0.45	0.031	0.48	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F1.005	MHF06	202.600	200.927	1.57	MHC01	202.760	200.704	1.96	0	0.25	100	8.9	40	1.068	8.388	0.030	0.45	0.031	0.48	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F2.000	MHF07	204.160	202.860	1.20	MHF08	203.930	202.415	1.42	0.05	0.05	100	17.8	40	1.068	8.388	0.006	0.283	0.06	0.30	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F2.001	MHF08	203.930	202.415	1.42	MHF09	203.310	202.026	1.18	0.05	0.1	100	15.6	40	1.068	8.388	0.012	0.345	0.08	0.37	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F2.002	MHF09	203.310	202.026	1.18	MHF10	203.120	201.769	1.25	0.05	0.15	100	10.3	40	1.068	8.388	0.018	0.4	0.021	0.43	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F2.003	MHF10	203.120	201.769	1.25	MHF11	202.980	201.460	1.42	0.05	0.2	100	12.4	40	1.068	8.388	0.024	0.4	0.021	0.43	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
F2.004	MHF11	202.980	201.460	1.42	MHC01	202.760	200.704	1.96	0	0.2	100	2.7	4	3.391	26.633	0.008	0.283	0.06	0.96	
C1.000	MHC01	202.760	200.704	1.91	MHC02	200.680	199.330	1.20	0	0.45	150	27.4	20	1.992	35.202	0.013	0.345	0.08	0.69	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)
C1.001	MHC02	200.680	199.330	1.20	EXMH	200.080	198.080	1.85	0	0.45	150	48.2	39	1.425	25.185	0.018	0.4	0.1	0.57	Acceptable as 100mm dia. Sewer laid no flatter than 1 in 80 and has at least 1 WC (see clause B6 point 9b of design and construction guidance)