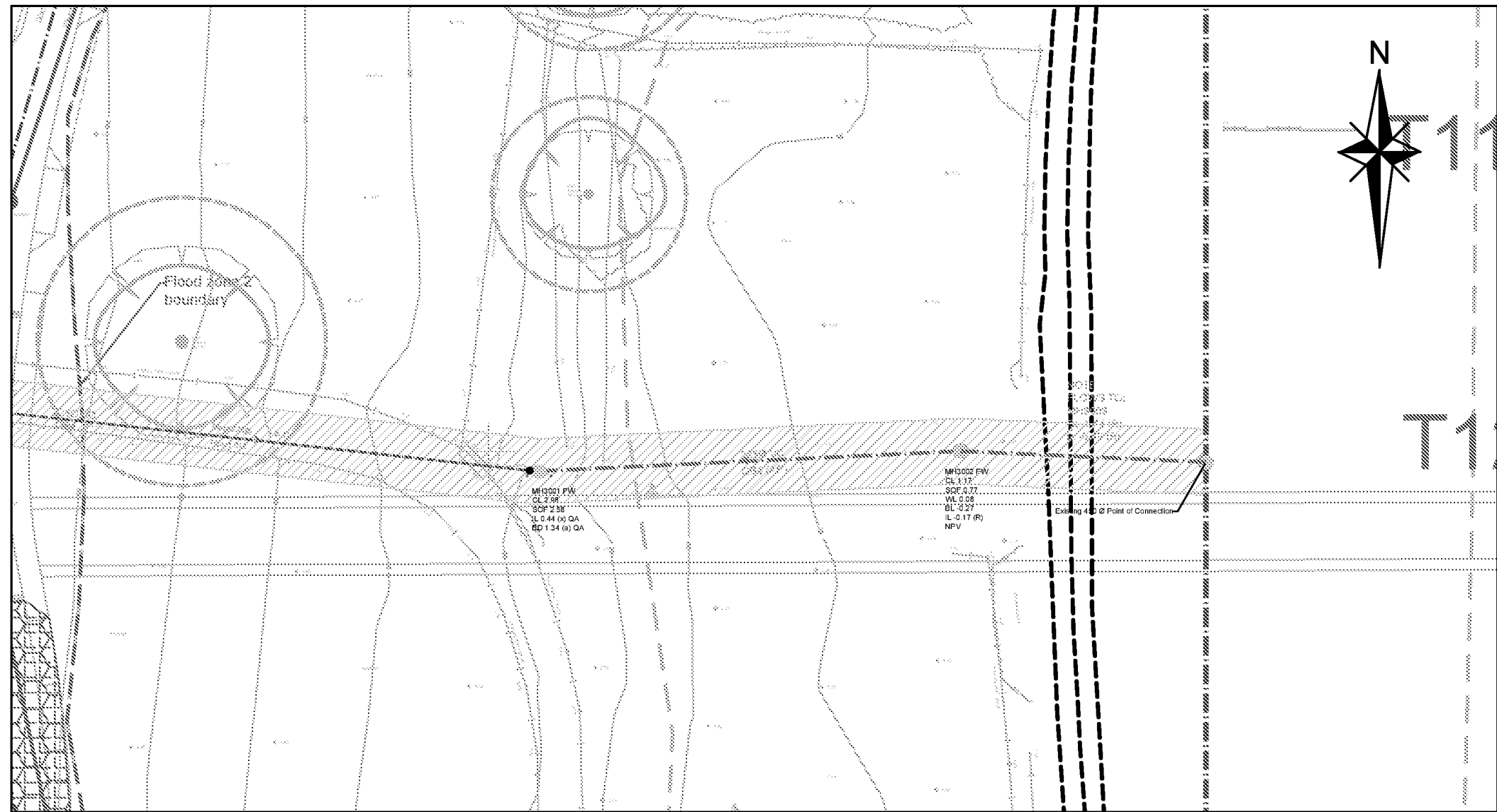


Appendix L Foul Water Strategy





- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
 2. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
 3. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE SHOWN.
 4. ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS. DRAWING BASED ON TOPOGRAPHICAL SURVEY PROVIDED BY OTHERS; C&A ARE NOT RESPONSIBLE FOR ANY INACCURACIES.
- Legend:**
- Existing foul water sewer to be retained
 - Proposed foul water drainage
 - Existing sewer to be retained
 - Existing sewer to be abandoned
 - Diverted foul water sewer subject to S185/116 agreement with Southern Water
 - 6m easement

B	Amended following update to Architect's layout	SC	SC	GAC	Aug 21
A	Amended following update to Architect's layout	GW	SC	GAC	July 21
Rev	Amendments	Dm	Chk	App	Date

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Issued by: ☒ ☐

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East Mallory Trust Estate
Brimstone Lane
Aylesford
Kent
ME20 6BN
01752 448120

Job Title	Land East of Woodgate Lane		
Drawing Title	Proposed Foul Water Drainage Strategy		
Client	Pye Homes		
Scale	1:500@A1	Date	Jan 21
Drawn	JT	Checked	MR
Job No	20-061	Drawing No	20-061-011
Designed	JT	Approved	GAC
Rev	B		

Appendix M Foul Water Calcs

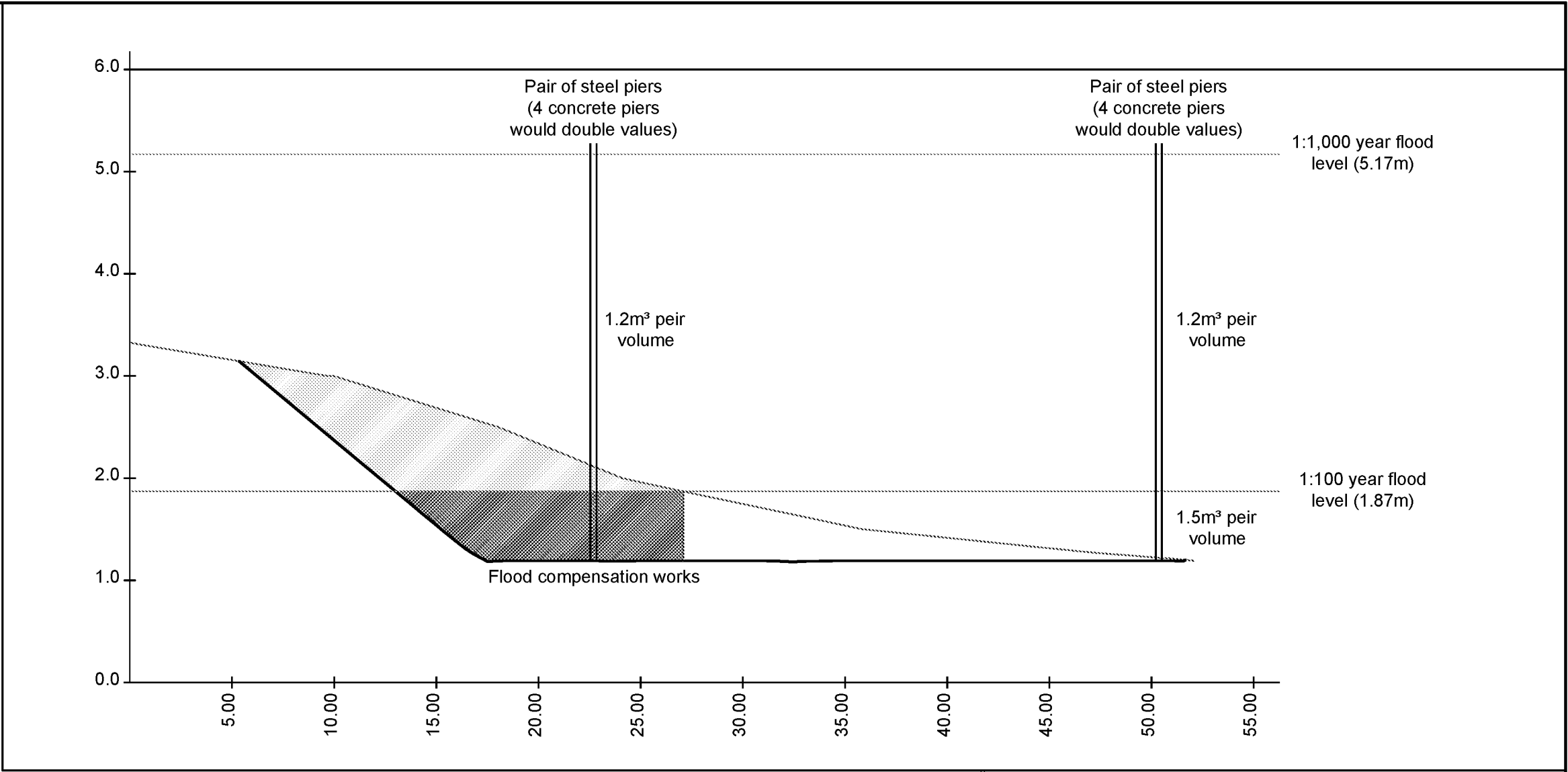
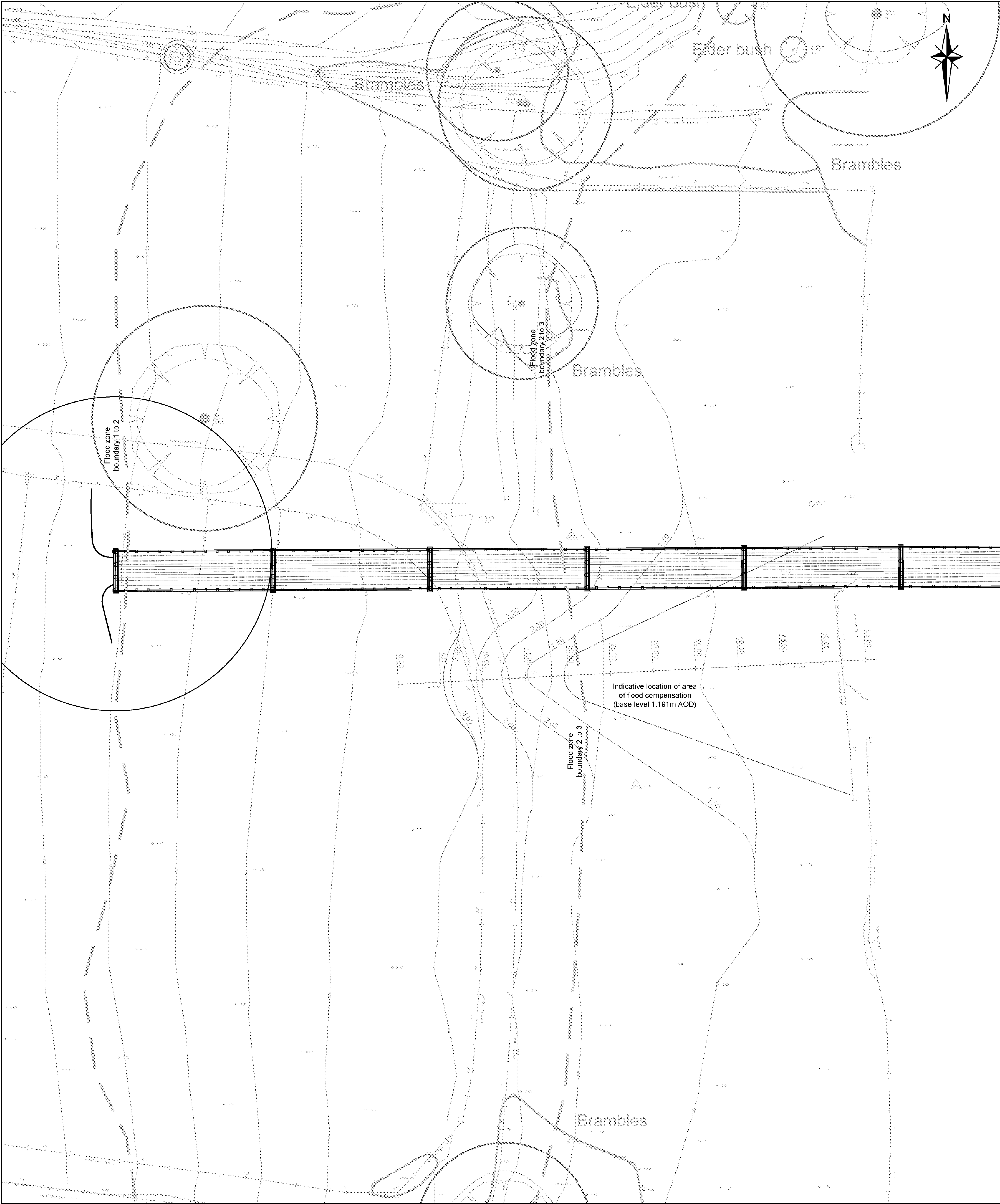
C & A Consulting Engineers Ltd										Page 1																																																																																																																																																																																																																																																														
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FOUL SEWERAGE DESIGN Design Criteria for Storm Pipe Sizes STANDARD Manhole Sizes STANDARD <table><tr><td>Industrial Flow (l/s/ha)</td><td>0.00</td><td>Add Flow / Climate Change (%)</td><td>0</td></tr><tr><td>Industrial Peak Flow Factor</td><td>0.00</td><td>Minimum Backdrop Height (m)</td><td>0.200</td></tr><tr><td>Flow Per Person (l/per/day)</td><td>225.00</td><td>Maximum Backdrop Height (m)</td><td>1.500</td></tr><tr><td>Persons per House</td><td>3.00</td><td>Mn Design Depth for Optimisation (m)</td><td>1.200</td></tr><tr><td>Domestic (l/s/ha)</td><td>0.00</td><td>Mn Vel for Auto Design only (m/s)</td><td>1.00</td></tr><tr><td>Domestic Peak Flow Factor</td><td>6.00</td><td>Mn Slope for Optimisation (1:X)</td><td>500</td></tr></table> Designed with Level Soffits												Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0	Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200	Flow Per Person (l/per/day)	225.00	Maximum Backdrop Height (m)	1.500	Persons per House	3.00	Mn Design Depth for Optimisation (m)	1.200	Domestic (l/s/ha)	0.00	Mn Vel for Auto Design only (m/s)	1.00	Domestic Peak Flow Factor	6.00	Mn Slope for Optimisation (1:X)	500																																																																																																																																																																																																																																					
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Dep (mm)	P. Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	1.000	5.776	0.000	0.0	5	0.0	14	0.23	0.79	31.6	0.2	2.000	6.750	0.000	0.0	5	0.0	12	0.42	0.97	7.6	0.2	1.001	5.667	0.000	0.0	20	0.0	32	0.27	0.56	22.4	0.9	1.002	5.628	0.000	0.0	25	0.0	33	0.32	0.64	25.4	1.2	1.003	5.545	0.000	0.0	25	0.0	30	0.37	0.78	30.9	1.2	3.000	7.800	0.000	0.0	11	0.0	21	0.42	0.67	5.2	0.5	3.001	7.585	0.000	0.0	13	0.0	23	0.44	0.67	5.2	0.6	3.002	7.433	0.000	0.0	13	0.0	15	0.83	1.67	13.1	0.6	1.004	5.452	0.000	0.0	48	0.0	43	0.43	0.73	29.0	2.3	1.005	5.405	0.000	0.0	48	0.0	54	0.31	0.45	17.8	2.3
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Landmark House Station Road, Hook Hampshire RG27 9HA					20-061 Land East of Woodgate Lane Foul Network design calculation						
Date 05/08/2021 13:51 File FW WATER.MDX					Designed by JT Checked by MR						
Innovyze					Network 2019.1						
Network Design Table for Storm											
PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
4.000	25.952	0.589	44.1	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
4.001	32.216	0.151	214.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.006	13.073	0.070	186.6	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
5.000	34.153	0.665	51.4	0.000	10	0.0	1.500	o	100	Pipe/Conduit	
5.001	14.579	2.070	7.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.007	32.802	0.035	937.2	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
6.000	26.733	0.267	100.1	0.000	6	0.0	1.500	o	100	Pipe/Conduit	
6.001	51.452	0.515	99.9	0.000	11	0.0	1.500	o	100	Pipe/Conduit	
6.002	36.243	0.362	100.1	0.000	6	0.0	1.500	o	100	Pipe/Conduit	
6.003	25.484	0.255	99.9	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
6.004	17.100	0.221	77.4	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.008	5.939	0.035	169.7	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
7.000	17.908	0.119	150.5	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
7.001	23.872	0.159	150.1	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
7.002	26.070	0.175	149.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
Network Results Table											
PN	US/IL (m)	√ Area (ha)	√ Base Flow (l/s)	√ Hse Flow (l/s)	Add Flow (l/s)	P. Dep (mm)	P. Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
4.000	7.910	0.000	0.0	0	0.0	0	0.00	1.00	7.9	0.0	
4.001	7.590	0.000	0.0	0	0.0	0	0.00	0.45	3.6	0.0	
1.006	5.360	0.000	0.0	48	0.0	40	0.48	0.84	33.4	2.3	
5.000	8.150	0.000	0.0	10	0.0	17	0.51	0.93	7.3	0.5	
5.001	7.485	0.000	0.0	10	0.0	11	1.01	2.52	19.8	0.5	
1.007	5.290	0.000	0.0	58	0.0	66	0.28	0.37	14.8	2.7	
6.000	7.000	0.000	0.0	6	0.0	16	0.34	0.66	5.2	0.3	
6.001	6.733	0.000	0.0	17	0.0	27	0.48	0.67	5.2	0.8	
6.002	6.218	0.000	0.0	23	0.0	31	0.52	0.66	5.2	1.1	
6.003	5.856	0.000	0.0	24	0.0	32	0.53	0.67	5.2	1.1	
6.004	5.601	0.000	0.0	24	0.0	30	0.58	0.76	5.9	1.1	
1.008	5.255	0.000	0.0	82	0.0	51	0.58	0.88	35.0	3.8	
7.000	7.400	0.000	0.0	4	0.0	13	0.25	0.71	12.6	0.2	
7.001	7.281	0.000	0.0	6	0.0	16	0.28	0.71	12.6	0.3	
7.002	7.122	0.000	0.0	8	0.0	18	0.31	0.72	12.7	0.4	
ø1982- 2019 Innovyze											

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Landmark House Station Road, Hook Hampshire RG27 9HA					20-061 Land East of Woodgate Lane Foul Network design calculation							
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Innovyze					Network 2019.1							
Network Design Table for Storm												
PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design	
7.003	10.264	0.118	86.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
8.000	79.444	0.530	149.9	0.000	15	0.0	1.500	o	100	Pipe/Conduit		
7.004	24.689	0.165	149.6	0.000	2	0.0	1.500	o	150	Pipe/Conduit		
7.005	70.800	0.472	150.0	0.000	7	0.0	1.500	o	150	Pipe/Conduit		
9.000	40.101	0.910	44.1	0.000	5	0.0	1.500	o	100	Pipe/Conduit		
9.001	38.937	0.883	44.1	0.000	3	0.0	1.500	o	100	Pipe/Conduit		
7.006	29.771	0.394	75.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
7.007	30.505	0.305	100.0	0.000	8	0.0	1.500	o	150	Pipe/Conduit		
7.008	14.864	0.148	100.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
1.009	93.313	0.271	344.3	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
1.010	10.341	0.032	323.1	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
1.011	25.627	0.197	130.0	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
10.000	15.724	0.105	149.8	0.000	5	0.0	1.500	o	150	Pipe/Conduit		
10.001	34.264	0.228	150.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit		
10.002	4.355	0.029	150.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
Network Results Table												
PN	US/IL (m)	√ Area (ha)	√ Base Flow (l/s)	√ Hse	Add Flow (l/s)	P. Dep (mm)	P. Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
7.003	6.947	0.000	0.0	8	0.0	16	0.38	0.94	16.6	0.4		
8.000	7.409	0.000	0.0	15	0.0	28	0.40	0.54	4.3	0.7		
7.004	6.829	0.000	0.0	25	0.0	31	0.44	0.72	12.6	1.2		
7.005	6.664	0.000	0.0	32	0.0	35	0.48	0.71	12.6	1.5		
9.000	6.700	0.000	0.0	5	0.0	12	0.43	1.00	7.9	0.2		
9.001	5.790	0.000	0.0	8	0.0	15	0.50	1.00	7.9	0.4		
7.006	4.857	0.000	0.0	40	0.0	33	0.65	1.01	17.8	1.9		
7.007	4.462	0.000	0.0	48	0.0	39	0.62	0.88	15.5	2.3		
7.008	4.157	0.000	0.0	48	0.0	39	0.62	0.87	15.4	2.3		
1.009	5.220	0.000	0.0	130	0.0	76	0.51	0.62	24.5	6.1		
1.010	4.949	0.000	0.0	130	0.0	75	0.52	0.64	25.3	6.1		
1.011	4.917	0.000	0.0	130	0.0	59	0.73	1.01	40.0	6.1		
10.000	5.100	0.000	0.0	5	0.0	14	0.27	0.71	12.6	0.2		
10.001	4.995	0.000	0.0	6	0.0	16	0.28	0.71	12.6	0.3		
10.002	4.767	0.000	0.0	6	0.0	16	0.28	0.71	12.6	0.3		
ø1982- 2019 Innovyze												

C & A Consulting Engineers Ltd										Page 4		
Landmark House Station Road, Hook Hampshire RG27 9HA						20-061 Land East of Woodgate Lane Foul Network design calculation						
Date 05/08/2021 13:51 File FW WATER.MDX						Designed by JT Checked by MR						
Innovyze						Network 2019.1						
<u>Network Design Table for Storm</u>												
PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design	
11.000	47.432	0.316	150.1	0.000	5	0.0	1.500	o	150	Pipe/Conduit		
11.001	17.238	0.115	149.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
1.012	51.566	2.720	19.0	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
1.013	38.680	2.170	17.8	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
1.014	13.804	0.313	44.1	0.000	0	0.0	1.500	o	225	Pipe/Conduit		
<u>Network Results Table</u>												
PN	US/IL (m)	√ Area (ha)	√ Base Flow (l/s)	√ Hse Add Flow (l/s)	P. Dep (mm)	P. Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)			
11.000	5.200	0.000	0.0	5	0.0	15	0.27	0.71	12.6	0.2		
11.001	4.884	0.000	0.0	5	0.0	15	0.27	0.71	12.6	0.2		
1.012	4.720	0.000	0.0	141	0.0	38	1.47	2.64	105.1	6.6		
1.013	2.000	0.000	0.0	141	0.0	38	1.50	2.73	108.4	6.6		
1.014	-0.170	0.000	0.0	141	0.0	47	1.09	1.73	68.8	6.6		
ø1982- 2019 Innovyze												

Appendix N Potential Flood Compensation



Flood zone boundary 2 to 3

Flood zone boundary 1 to 2

Approximate corner of sports pitch

NOTES

Bridge and approaches are yet to be designed fully, this drawing is for discussion purposes only

The following amount of flood compensation would be required due to the piers (Steelwork option lower value whilst concrete option is higher value):

3.09 to 6.17m³ flood zone 2 (west)

0.15 to 0.31m³ flood zone 3 (west)

~3.9 to ~7.8m³ flood zone 2 (east)

~0.25 to ~0.5m³ flood zone 3 (east)

Volumes east of the river are approximate and are for others to compensate for

Volumes assume no impact on existing ground levels from construction methods

A	Updated following changes to bridge options					GW	GAC	GAC	July 21
Rev	Amendments					Dm	Chk	App	Date
Charles & Associates Landmark House Station Road Hook Hampshire B27 9JA 01256 68420 enquiries@c-a.uk.com www.c-a.uk.com Park House Park Farm East Mallory Trust Estate Brookdown Lane Aylesford Kent ME20 6EN 01732 448120									
Job Title									
Land East of Woodgate Lane									
Drawing Title									
Footbridge									
Client									
Pye Homes									
Scale	1:250 @ A1				Date	June 21		Designed	GPW
Drawn	GPW				Checked	GAC		Approved	GAC
Job No	20-061				Drawing No	20-061-027			Rev A