
Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD

Doc No. WS-03-A

Prepared by:



December 2018

Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD

Foul Network 1

Doc No. WS-03


Prepared by:



December 2018

Manhole Schedules for Foul - Main 1

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
FF-1	104.157	1.485	Open Manhole	1200	F1.000	102.672	225				
FF-3	103.386	1.405	Open Manhole	1200	F2.000	101.981	150				
FF-2	103.663	1.915	Open Manhole	1200	F1.001	101.748	225	F1.000	101.813	225	65
								F2.000	101.823	150	
FF-4	102.985	1.506	Open Manhole	1200	F1.002	101.479	225	F1.001	101.479	225	
FF-6	102.280	1.439	Open Manhole	1200	F3.000	100.841	150				
FF-5	102.714	2.138	Open Manhole	1200	F1.003	100.576	225	F1.002	101.240	225	664
								F3.000	100.651	150	
FF-7	102.392	2.073	Open Manhole	1200	F1.004	100.319	225	F1.003	100.319	225	
FF-9	101.749	1.408	Open Manhole	1200	F4.000	100.341	150				
FF-8	102.120	2.133	Open Manhole	1200	F1.005	99.987	225	F1.004	100.090	225	103
								F4.000	100.062	150	
FF-10	101.825	2.095	Open Manhole	1200	F1.006	99.730	225	F1.005	99.730	225	
FF-11	101.642	2.071	Open Manhole	1200	F1.007	99.571	225	F1.006	99.571	225	
FF-18	103.946	1.505	Open Manhole	1200	F5.000	102.441	225				
FF-19	103.643	1.435	Open Manhole	1200	F5.001	102.208	225	F5.000	102.208	225	
FF-20	102.960	1.425	Open Manhole	1200	F5.002	101.535	225	F5.001	101.535	225	
FF-21	102.096	1.425	Open Manhole	1200	F5.003	100.671	225	F5.002	100.671	225	
FF-22	101.840	1.426	Open Manhole	1200	F5.004	100.414	225	F5.003	100.414	225	
FF-24	101.703	1.350	Open Manhole	1200	F6.000	100.353	150				
FF-23	101.632	1.598	Open Manhole	1200	F5.005	100.034	225	F5.004	100.206	225	172
								F6.000	100.109	150	
FF-25	101.268	1.515	Open Manhole	1200	F5.006	99.753	225	F5.005	99.753	225	
FF-27	101.244	1.350	Open Manhole	1200	F7.000	99.894	150				
FF-26	101.081	1.518	Open Manhole	1200	F5.007	99.563	225	F5.006	99.615	225	52
								F7.000	99.638	150	
FF-12	100.839	1.606	Open Manhole	1200	F1.008	99.233	225	F1.007	99.233	225	
								F5.007	99.285	225	52
FF-28	103.618	1.350	Open Manhole	1200	F8.000	102.268	150				
FF-29	103.239	1.500	Open Manhole	1200	F8.001	101.739	225	F8.000	101.814	150	
FF-31	102.703	1.350	Open Manhole	1200	F9.000	101.353	150				
FF-30	102.232	1.845	Open Manhole	1200	F8.002	100.387	225	F8.001	100.387	225	
								F9.000	100.864	150	402
FF-33	101.538	1.350	Open Manhole	1200	F10.000	100.188	150				
FF-32	101.756	1.910	Open Manhole	1200	F8.003	99.846	225	F8.002	100.034	225	188
								F10.000	99.921	150	
FF-35	101.736	1.350	Open Manhole	1200	F11.000	100.386	150				
FF-34	101.490	1.840	Open Manhole	1200	F8.004	99.650	225	F8.003	99.650	225	

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Unit 1, St. Therese's Place Flowerhill, Navan Co. Meath	Long Section - Foul Network 1 Dunshaughlin East SHD Dunshaughlin, Co. Meath	
Date 13/12/2018 File Dunshaughlin SHD R23.mdx	Designed by JOR Engineering Checked by D O'Brien	
XP Solutions	Network 2017.1.2	

Manhole Schedules for Foul - Main 1

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
FF-37	101.069	1.150	Open Manhole	1200	F12.000	99.919	150	F11.000	100.156	150	431
FF-36	101.319	1.847	Open Manhole	1200	F8.005	99.472	225	F8.004	99.472	225	
FF-39	101.181	1.350	Open Manhole	1200	F13.000	99.831	150	F12.000	99.718	150	171
FF-38	100.632	1.397	Open Manhole	1200	F8.006	99.235	225	F8.005	99.235	225	
FF-40	100.708	1.639	Open Manhole	1200	F8.007	99.069	225	F13.000	99.647	150	337
FF-13	100.462	1.591	Open Manhole	1200	F1.009	98.871	225	F8.006	99.069	225	
FF-41	103.603	1.350	Open Manhole	1200	F14.000	102.253	150	F1.008	98.881	225	10
FF-42	103.396	1.659	Open Manhole	1200	F14.001	101.737	225	F8.007	98.871	225	
FF-44	102.638	1.350	Open Manhole	1200	F15.000	101.288	150	F14.001	100.744	225	
FF-43	102.185	1.441	Open Manhole	1200	F14.002	100.744	225	F15.000	100.854	150	35
FF-45	101.981	1.425	Open Manhole	1200	F14.003	100.556	225	F14.002	100.556	225	
FF-47	101.466	1.350	Open Manhole	1200	F16.000	100.116	150	F14.003	99.891	225	143
FF-46	101.316	1.568	Open Manhole	1200	F14.004	99.748	225	F16.000	99.823	150	
FF-49	101.034	1.350	Open Manhole	1200	F17.000	99.684	150	F14.004	99.292	225	
FF-48	100.717	1.425	Open Manhole	1200	F14.005	99.292	225	F17.000	99.369	150	2
FF-50	100.266	1.305	Open Manhole	1200	F14.006	98.961	225	F14.005	98.961	225	
FF-14	99.759	1.212	Open Manhole	1200	F1.010	98.547	225	F1.009	98.547	225	
FF-15	99.632	1.212	Open Manhole	1200	F1.011	98.420	225	F14.006	98.606	225	59
FF-16	99.494	1.213	Open Manhole	1200	F1.012	98.281	225	F1.010	98.420	225	
FF-17	99.739	1.509	Open Manhole	0		OUTFALL		F1.011	98.281	225	
								F1.012	98.230	225	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath

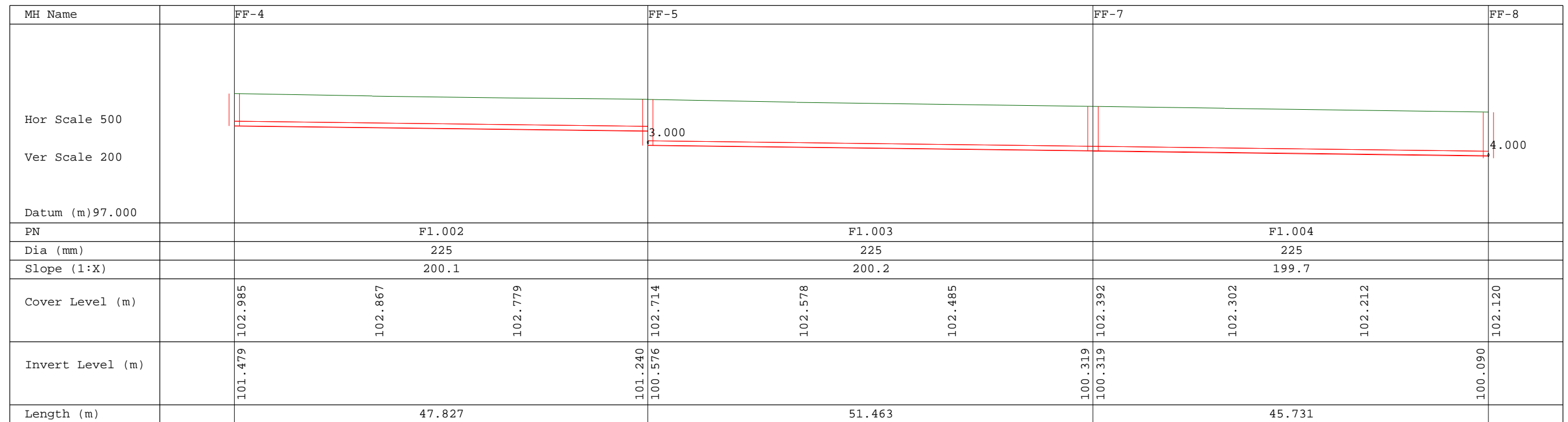
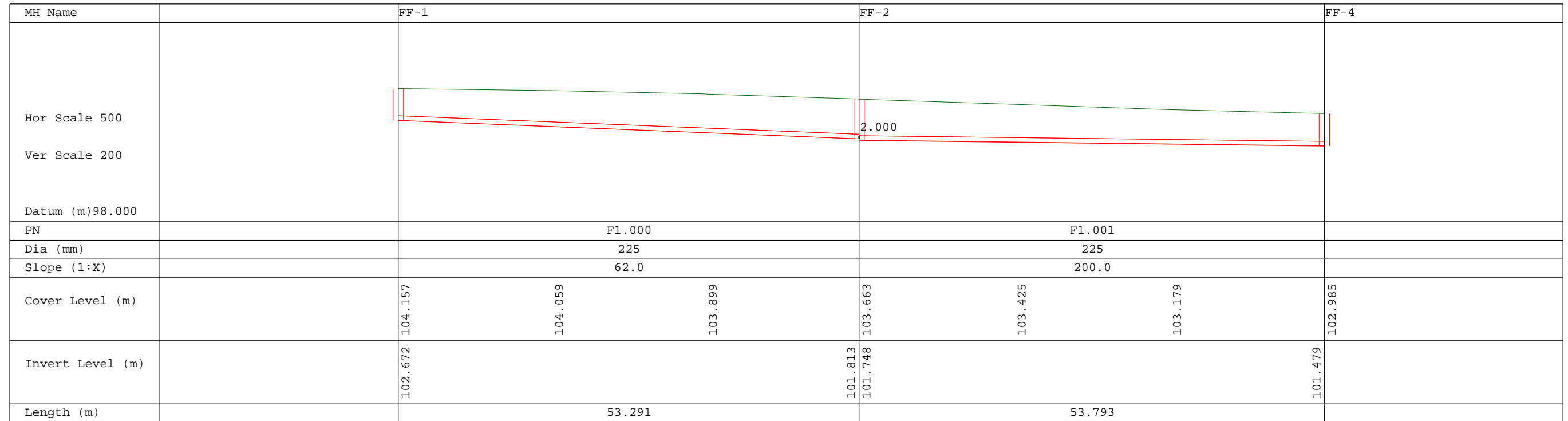


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MH Name	FF-8	FF-10	FF-11
Hor Scale 500			
Ver Scale 200			
Datum (m)96.000			
PN	F1.005	F1.006	
Dia (mm)	225	225	
Slope (1:X)	200.0	199.7	
Cover Level (m)	102.120 102.023 101.924	101.825 101.761 101.696	101.642
Invert Level (m)	99.987	99.730 99.730	99.571
Length (m)	51.412	31.755	

MH Name	FF-11	FF-12	FF-13
Hor Scale 500			
Ver Scale 200			
Datum (m)96.000			
PN	F1.007	F1.008	
Dia (mm)	225	225	
Slope (1:X)	199.7	199.7	
Cover Level (m)	101.642 101.350 101.019	100.839 100.632	100.411 100.462
Invert Level (m)	99.571	99.233 99.233	98.881
Length (m)	67.508	70.307	

Unit 1, St. Therese's Place
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Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name	FF-13	FF-14	FF-15	FF-16	FF-17
Hor Scale 500					
Ver Scale 200					
Datum (m)	95.000				
PN	F1.009		F1.010	F1.011	
Dia (mm)	225		225	225	
Slope (1:X)	200.1		88.7	182.9	
Cover Level (m)	100.462	100.178	99.912	99.759	99.751
Invert Level (m)	98.871	98.547	98.420	98.281	98.281
Length (m)	64.844		11.264	25.421	

MH Name	FF-3	FF-2
Hor Scale 500		
Ver Scale 200		
Datum (m)	98.000	
PN	F2.000	
Dia (mm)	150	
Slope (1:X)	153.0	
Cover Level (m)	103.386	103.663
Invert Level (m)	101.981	101.823
Length (m)	24.181	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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MH Name	FF-6	FF-5
Hor Scale 500		
Ver Scale 200		
Datum (m)97.000		
PN	F3.000	
Dia (mm)	150	
Slope (1:X)	153.6	
Cover Level (m)	102.280	102.714
Invert Level (m)	100.841	100.651
Length (m)	29.184	

MH Name	FF-9	FF-8
Hor Scale 500		
Ver Scale 200		
Datum (m)96.000		
PN	F4.000	
Dia (mm)	150	
Slope (1:X)	104.6	
Cover Level (m)	101.749	102.120
Invert Level (m)	100.341	100.062
Length (m)	29.185	

Unit 1, St. Therese's Place
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Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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MH Name	FF-18	FF-19	FF-20	FF-21
Hor Scale 500				
Ver Scale 200				
Datum (m)98.000				
PN	F5.000	F5.001	F5.002	
Dia (mm)	225	225	225	
Slope (1:X)	36.0	63.6	57.8	
Cover Level (m)	103.946 103.896 103.840 103.643	103.495 103.204	102.960 102.574 102.289	102.096
Invert Level (m)	102.441 102.208 102.208		101.535 101.535	100.671
Length (m)	8.383	42.826	49.981	

MH Name	FF-21	FF-22	FF-23	FF-25
Hor Scale 500				
Ver Scale 200				
Datum (m)96.000				
PN	F5.003	F5.004	F5.005	
Dia (mm)	225	225	225	
Slope (1:X)	197.6	193.9	199.8	
Cover Level (m)	102.096 101.986	101.892 101.840 101.726 101.654	101.632 101.477 101.373	101.268
Invert Level (m)	100.671	100.414 100.414	100.206 100.034	99.753
Length (m)	50.772	40.338	56.131	

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Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-25	FF-26	FF-12
Hor Scale 500			
Ver Scale 200			
Datum (m)96.000			
PN	F5.006	F5.007	
Dia (mm)	225	225	
Slope (1:X)	200.5	200.0	
Cover Level (m)	101.268 101.219 101.171	101.081 101.010 100.900	100.839
Invert Level (m)	99.753	99.615 99.563	99.285
Length (m)	27.674	55.593	

MH Name	FF-24	FF-23
Hor Scale 500		
Ver Scale 200		
Datum (m)96.000		
PN	F6.000	
Dia (mm)	150	
Slope (1:X)	102.8	
Cover Level (m)	101.703 101.660 101.688	101.632
Invert Level (m)	100.353	100.109
Length (m)	25.081	

Unit 1, St. Therese's Place
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Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name	FF-27	FF-26
Hor Scale 500		
Ver Scale 200		
Datum (m)96.000		
PN	F7.000	
Dia (mm)	150	
Slope (1:X)	102.9	
Cover Level (m)	101.244 101.198 101.206	101.081
Invert Level (m)	99.894	99.638
Length (m)	26.348	

MH Name	FF-28	FF-29	FF-30
Hor Scale 500			
Ver Scale 200			
Datum (m)97.000			
PN	F8.000		F8.001
Dia (mm)	150		225
Slope (1:X)	102.9		56.0
Cover Level (m)	103.618 103.503 103.387	103.239 102.960	102.581 102.232
Invert Level (m)	102.268	101.814 101.739	100.387
Length (m)	46.732		75.725

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-30	FF-32	FF-34	FF-36
Hor Scale 500				
Ver Scale 200				
Datum (m)	96.000			
PN	F8.002		F8.003	
Dia (mm)	225		225	
Slope (1:X)	199.7		200.0	
Cover Level (m)	102.232	101.914	101.490	101.319
Invert Level (m)	100.387	100.034	99.650	99.472
Length (m)	70.505		35.611	

MH Name	FF-36	FF-38	FF-40	FF-13
Hor Scale 500				
Ver Scale 200				
Datum (m)	95.000			
PN	F8.005		F8.006	
Dia (mm)	225		225	
Slope (1:X)	199.7		199.8	
Cover Level (m)	101.319	100.632	100.708	100.462
Invert Level (m)	99.472	99.235	99.069	98.871
Length (m)	47.320		39.561	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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MH Name	FF-31	FF-30
Hor Scale 500		
Ver Scale 200		
Datum (m)97.000		
PN		
Dia (mm)	F9.000 150	
Slope (1:X)	102.9	
Cover Level (m)	102.703	102.232
Invert Level (m)	101.353	100.864
Length (m)	50.333	

MH Name	FF-33	FF-32
Hor Scale 500		
Ver Scale 200		
Datum (m)96.000		
PN		
Dia (mm)	F10.000 150	
Slope (1:X)	150.3	
Cover Level (m)	101.538	101.756
Invert Level (m)	100.188	99.921
Length (m)	40.124	

Unit 1, St. Therese's Place
Flowerhill, Navan
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Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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XP Solutions

Network 2017.1.2

MH Name		FF-35		FF-34
Hor Scale 500				
Ver Scale 200				
Datum (m)96.000				
PN		F11.000		
Dia (mm)		150		
Slope (1:X)		149.9		
Cover Level (m)		101.736	101.661	101.598
Invert Level (m)		100.386		100.156
Length (m)		34.481		

MH Name		FF-37		FF-36
Hor Scale 500				
Ver Scale 200				
Datum (m)96.000				
PN		F12.000		
Dia (mm)		150		
Slope (1:X)		149.6		
Cover Level (m)		101.069	101.128	101.188
Invert Level (m)		99.919		99.718
Length (m)		30.078		

Unit 1, St. Therese's Place
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Long Section - Foul Network 1
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name		FF-39	FF-38
Hor Scale 500			
Ver Scale 200			
Datum (m)	96.000		
PN		F13.000	
Dia (mm)		150	
Slope (1:X)		149.7	
Cover Level (m)		101.181 101.095 101.030	100.632
Invert Level (m)		99.831	99.647
Length (m)		27.551	

MH Name		FF-41	FF-42	FF-43	FF-45
Hor Scale 500					
Ver Scale 200					
Datum (m)	97.000				
PN		F14.000	F14.001	F14.002	
Dia (mm)		150	225	225	
Slope (1:X)		102.9	76.0	68.0	
Cover Level (m)		103.603 103.530 103.457	103.396 102.994	102.590	101.981
Invert Level (m)		102.253	101.812 101.737	100.744 100.744	100.556
Length (m)		45.362	75.475	12.784	

Unit 1, St. Therese's Place
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Long Section - Foul Network 1
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Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name	FF-45	FF-46	FF-48
Hor Scale 500			
Ver Scale 200			
Datum (m)	96.000		
PN	F14.003		F14.004
Dia (mm)	225		225
Slope (1:X)	88.9		160.8
Cover Level (m)	101.981	101.670	101.398
Invert Level (m)	100.556	99.891	99.748
Length (m)	59.086	73.347	

MH Name	FF-48	FF-50	FF-14
Hor Scale 500			
Ver Scale 200			
Datum (m)	95.000		
PN	F14.005		F14.006
Dia (mm)	225		225
Slope (1:X)	200.0		200.1
Cover Level (m)	100.717	100.577	100.421
Invert Level (m)	99.292	98.961	98.961
Length (m)	66.213	71.046	

Unit 1, St. Therese's Place
Flowerhill, Navan
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Long Section - Foul Network 1
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XP Solutions

Network 2017.1.2

MH Name		FF-44		FF-43
Hor Scale 500				
Ver Scale 200				
Datum (m)97.000				
PN		F15.000		
Dia (mm)		150		
Slope (1:X)		103.0		
Cover Level (m)		102.638	102.496	102.354
Invert Level (m)		101.288		100.854
Length (m)		44.719		

MH Name		FF-47		FF-46
Hor Scale 500				
Ver Scale 200				
Datum (m)96.000				
PN		F16.000		
Dia (mm)		150		
Slope (1:X)		150.2		
Cover Level (m)		101.466	101.411	101.350
Invert Level (m)		100.116		99.823
Length (m)		44.016		

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

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Dunshaughlin, Co. Meath



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File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name	FF-49	FF-48
Hor Scale 500		
Ver Scale 200		
Datum (m)96.000		
PN		
Dia (mm)	F17.000 150	
Slope (1:X)	150.0	
Cover Level (m)	101.034	100.717
Invert Level (m)	99.684	99.369
Length (m)	47.260	

Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD

Foul Network 2

Doc No. WS-03


Prepared by:



December 2018

Manhole Schedules for Foul - Main 2

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
FF-61	104.174	1.425	Open Manhole	1200	F1.000	102.749	225				
FF-62	103.979	1.939	Open Manhole	1200	F1.001	102.040	225	F1.000	102.040	225	
FF-63	103.095	2.133	Open Manhole	1200	F1.002	100.962	225	F1.001	100.962	225	
FF-64	101.779	2.134	Open Manhole	1200	F1.003	99.645	225	F1.002	99.645	225	
FF-65	101.413	2.134	Open Manhole	1200	F1.004	99.279	225	F1.003	99.279	225	
FF-68	104.129	1.425	Open Manhole	1200	F2.000	102.704	225				
FF-70	103.959	1.350	Open Manhole	1200	F3.000	102.609	150				
FF-69	104.286	2.062	Open Manhole	1200	F2.001	102.224	225	F2.000	102.613	225	389
								F3.000	102.299	150	
FF-72	104.210	1.350	Open Manhole	1200	F4.000	102.860	150				
FF-71	104.037	2.014	Open Manhole	1200	F2.002	102.023	225	F2.001	102.023	225	
								F4.000	102.375	150	277
FF-74	102.668	1.350	Open Manhole	1200	F5.000	101.318	150				
FF-73	102.841	1.819	Open Manhole	1200	F2.003	101.022	225	F2.002	101.416	225	394
								F5.000	101.097	150	
FF-66	101.990	2.825	Open Manhole	1200	F1.005	99.165	225	F1.004	99.165	225	
								F2.003	100.632	225	1467
FEX.FMH1	100.950	2.134	Open Manhole	0		OUTFALL		F1.005	98.816	225	
FF-75	103.388	1.425	Open Manhole	1200	F6.000	101.963	225				
FF-77	103.825	1.350	Open Manhole	1200	F7.000	102.475	150				
FF-76	103.494	1.640	Open Manhole	1200	F6.001	101.854	225	F6.000	101.854	225	
								F7.000	102.177	150	248
FF-79	103.583	1.350	Open Manhole	1200	F8.000	102.233	150				
FF-78	103.447	1.951	Open Manhole	1200	F6.002	101.496	225	F6.001	101.496	225	
								F8.000	101.571	150	
FF-81	103.100	1.230	Open Manhole	1200	F9.000	101.870	150				
FF-80	103.282	1.994	Open Manhole	1200	F6.003	101.288	225	F6.002	101.306	225	18
								F9.000	101.363	150	
FF-83	102.717	1.350	Open Manhole	1200	F10.000	101.367	150				
FF-82	102.862	1.769	Open Manhole	1200	F6.004	101.093	225	F6.003	101.093	225	
								F10.000	101.186	150	18
FF-85	103.566	2.508	Open Manhole	1200	F11.000	101.058	225				
FF-87	103.463	1.350	Open Manhole	1200	F12.000	102.113	150				
FF-86	103.267	2.893	Open Manhole	1200	F11.001	100.374	225	F11.000	100.374	225	
								F12.000	101.852	150	1403
FF-88	102.524	2.372	Open Manhole	1200	F11.002	100.152	225	F11.001	100.152	225	
FF-89	101.984	2.008	Open Manhole	1200	F11.003	99.976	225	F11.002	99.976	225	

JO'Reilly Consulting Engineers Ltd		Page 2
Unit 1, St. Therese's Place Flowerhill, Navan Co. Meath	Long Section - Foul Network 2 Dunshaughlin East SHD Dunshaughlin, Co. Meath	
Date 13/12/2018 File Dunshaughlin SHD R23.mdx	Designed by JOR Engineering Checked by D O'Brien	
XP Solutions	Network 2017.1.2	

Manhole Schedules for Foul - Main 2

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
FF-90	102.119	2.362	Open Manhole	1200	F11.004	99.757	225	F11.003	99.757	225	
FF-91	102.280	2.681	Open Manhole	1200	F11.005	99.599	225	F11.004	99.599	225	
FF-84	102.004	2.568	Open Manhole	1200	F6.005	99.436	225	F6.004	100.561	225	1125
								F11.005	99.436	225	
FEX.FMH1	100.950	1.576	Open Manhole	0		OUTFALL		F6.005	99.374	225	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath

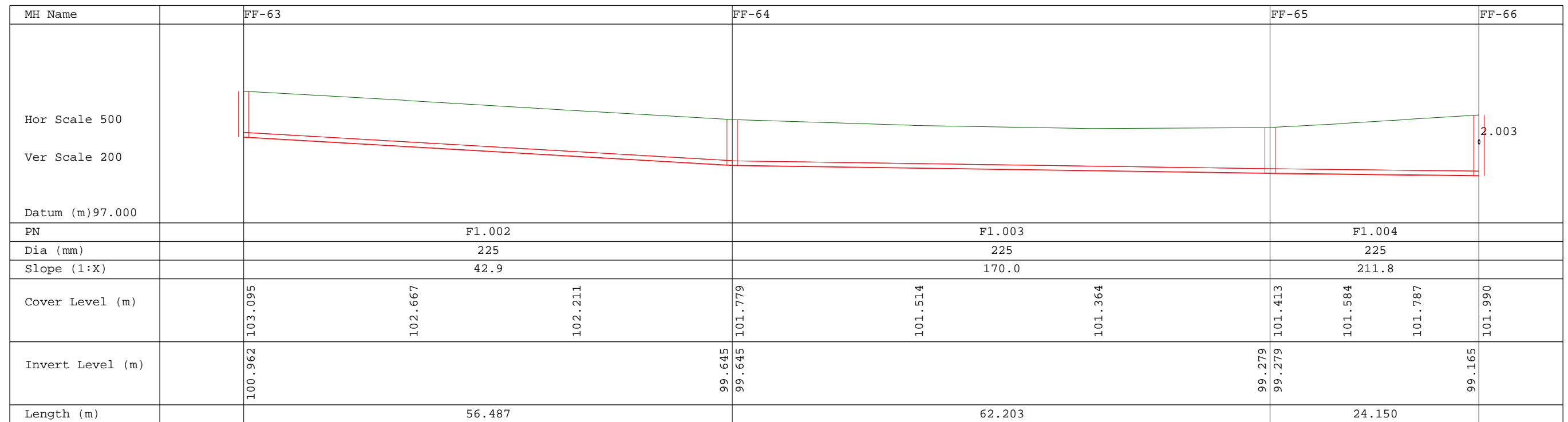
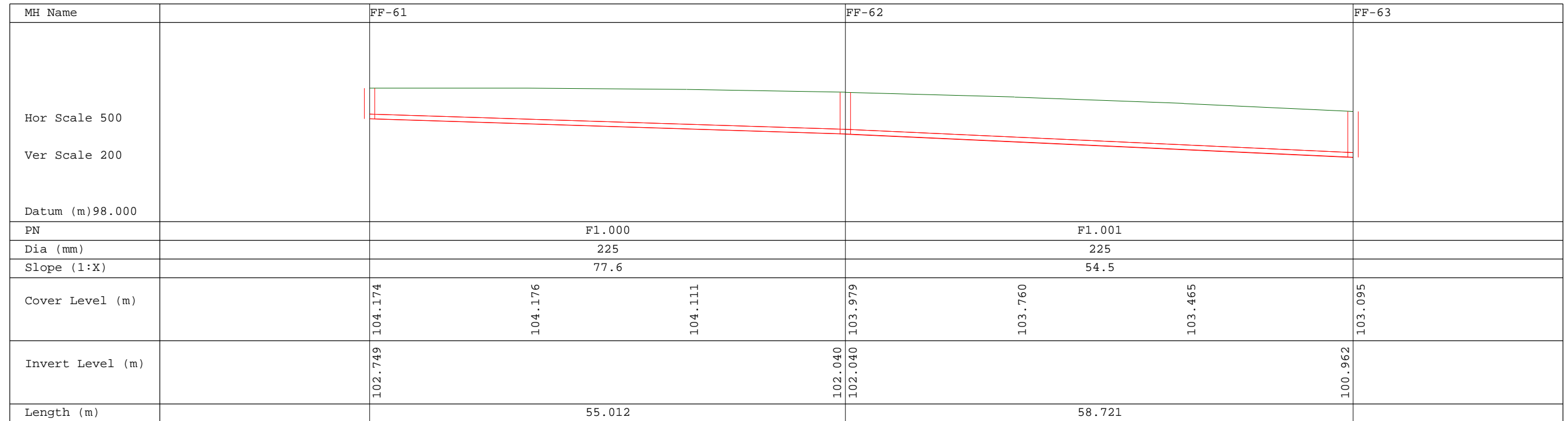


Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath

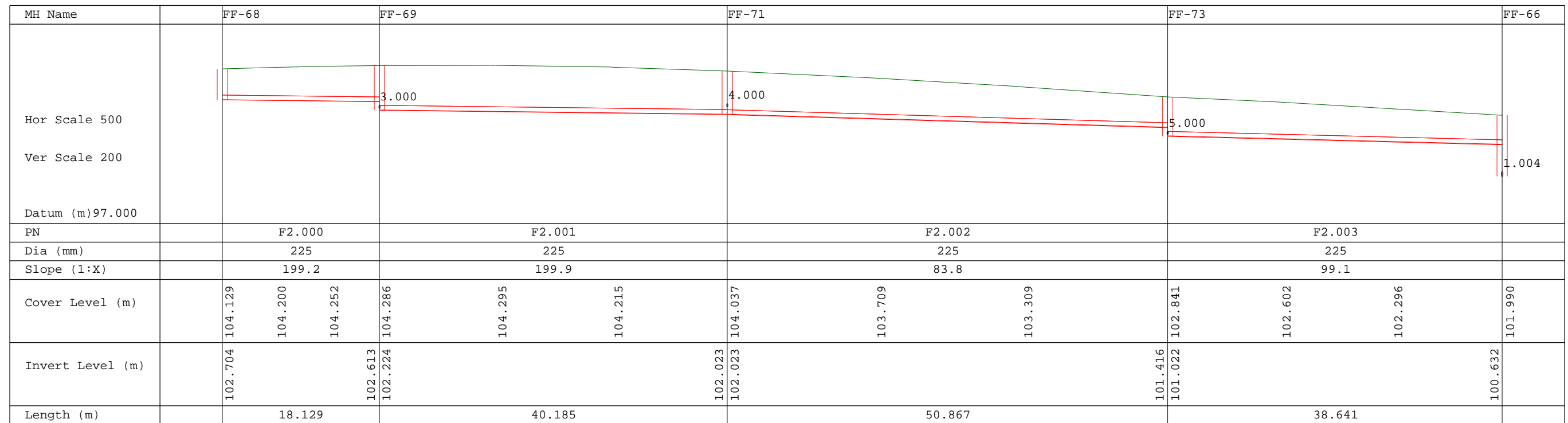
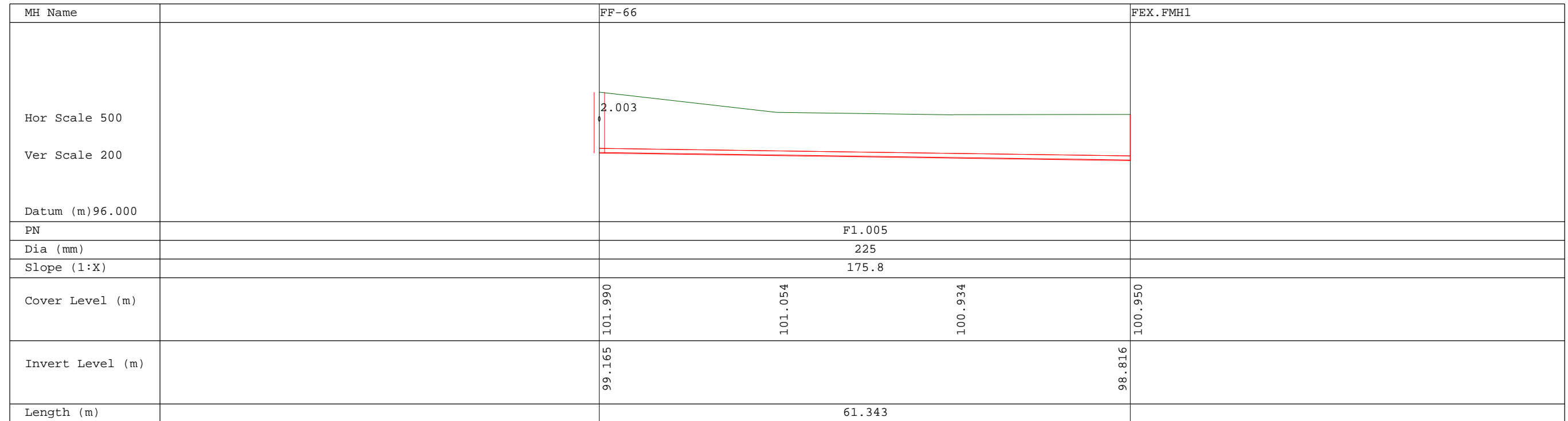


Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2



Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-70	FF-69
Hor Scale 500		
Ver Scale 200		
Datum (m)99.000		
PN	F3.000	
Dia (mm)	150	
Slope (1:X)	102.9	
Cover Level (m)	103.959	104.286
Invert Level (m)	102.609	102.299
Length (m)	31.902	

MH Name	FF-72	FF-71
Hor Scale 500		
Ver Scale 200		
Datum (m)99.000		
PN	F4.000	
Dia (mm)	150	
Slope (1:X)	102.9	
Cover Level (m)	104.210	104.037
Invert Level (m)	102.860	102.375
Length (m)	49.926	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-74	FF-73
Hor Scale 500		
Ver Scale 200		
Datum (m)97.000		
PN	F5.000	
Dia (mm)	150	
Slope (1:X)	150.1	
Cover Level (m)	102.668 102.727 102.797	102.841
Invert Level (m)	101.318	101.097
Length (m)	33.178	

MH Name	FF-75	FF-76	FF-78	FF-80	FF-82	FF-84
Hor Scale 500						
Ver Scale 200						
Datum (m)97.000						
PN	F6.000	F6.001	F6.002	F6.003	F6.004	
Dia (mm)	225	225	225	225	225	
Slope (1:X)	199.9	87.6	163.8	158.1	54.9	
Cover Level (m)	103.388 103.436 103.475	103.494 103.538 103.542	103.447 103.451 103.377	103.282 103.163 103.024	102.862 102.711 102.558	102.004
Invert Level (m)	101.963	101.854 101.854	101.496 101.496	101.306 101.288	101.093 101.093	100.561
Length (m)	21.793	31.365	31.113	30.833	29.209	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name		FF-84	FEX.FMH1
Hor Scale 500			
Ver Scale 200			
Datum (m)96.000			
PN		F6.005	
Dia (mm)		225	
Slope (1:X)		200.9	
Cover Level (m)		102.004 101.363 101.054	100.950
Invert Level (m)		99.436	99.374
Length (m)		12.458	

MH Name		FF-77	FF-76
Hor Scale 500			
Ver Scale 200			
Datum (m)98.000			
PN		F7.000	
Dia (mm)		150	
Slope (1:X)		102.9	
Cover Level (m)		103.825 103.711 103.596	103.494
Invert Level (m)		102.475	102.177
Length (m)		30.656	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-79	FF-78
Hor Scale 500		
Ver Scale 200		
Datum (m)98.000		
PN	F8.000	
Dia (mm)	150	
Slope (1:X)	105.7	
Cover Level (m)	103.583	103.447
Invert Level (m)	102.233	101.571
Length (m)	69.970	

MH Name	FF-81	FF-80
Hor Scale 500		
Ver Scale 200		
Datum (m)98.000		
PN	F9.000	
Dia (mm)	150	
Slope (1:X)	78.0	
Cover Level (m)	103.100	103.282
Invert Level (m)	101.870	101.363
Length (m)	39.535	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name		FF-83	FF-82
Hor Scale 500			
Ver Scale 200			
Datum (m)97.000			
PN		F10.000	
Dia (mm)		150	
Slope (1:X)		150.0	
Cover Level (m)		102.717 102.760 102.803	102.862
Invert Level (m)		101.367	101.186
Length (m)		27.157	

MH Name		FF-85	FF-86	FF-88	FF-89
Hor Scale 500					
Ver Scale 200					
Datum (m)97.000					
PN		F11.000	F11.001	F11.002	
Dia (mm)		225	225	225	
Slope (1:X)		77.6	200.1	200.2	
Cover Level (m)		103.566 103.597 103.467	103.267 102.981 102.752	102.524 102.356 102.189	101.984
Invert Level (m)		101.058	100.374 100.374	100.152 100.152	99.976
Length (m)		53.049	44.426	35.240	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 2
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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XP Solutions

Network 2017.1.2

MH Name	FF-89	FF-90	FF-91	FF-84
Hor Scale 500				
Ver Scale 200				
Datum (m)96.000				
PN	F11.003	F11.004	F11.005	
Dia (mm)	225	225	225	
Slope (1:X)	199.6	199.4	200.1	
Cover Level (m)	101.984 101.949 102.034	102.119 102.172 102.224	102.280 102.331 102.361	102.004
Invert Level (m)	99.976	99.757 99.757	99.599 99.599	99.436
Length (m)	43.718	31.510	32.620	

MH Name	FF-87	FF-86
Hor Scale 500		
Ver Scale 200		
Datum (m)97.000		
PN	F12.000	
Dia (mm)	150	
Slope (1:X)	103.1	
Cover Level (m)	103.463 103.371 103.279	103.267
Invert Level (m)	102.113 101.852	
Length (m)	26.913	

Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD


Foul Network 3

Doc No. WS-03

Prepared by:



December 2018

JO'Reilly Consulting Engineers Ltd		Page 1
Unit 1, St. Therese's Place Flowerhill, Navan Co. Meath	Long Section - Foul Network 3 Dunshaughlin East SHD Dunshaughlin, Co. Meath	
Date 13/12/2018 File Dunshaughlin SHD R23.mdx	Designed by JOR Engineering Checked by D O'Brien	
XP Solutions	Network 2017.1.2	

Manhole Schedules for Foul - Main 3

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out		Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	
FF-100	101.163	1.441	Open Manhole	1200	F1.000	99.722	225			
FF-101	100.594	1.742	Open Manhole	1200	F1.001	98.852	225	F1.000	98.852	225
FF-102	100.150	1.661	Open Manhole	1200	F1.002	98.489	225	F1.001	98.489	225
FF-105	99.878	1.786	Open Manhole	1200	F2.000	98.092	150			
FF-104	99.824	1.810	Open Manhole	1200	F2.001	98.014	150	F2.000	98.014	150
FF-103	99.790	1.906	Open Manhole	1200	F1.003	97.884	225	F1.002	98.026	225
								F2.001	97.959	150
FF-108	99.528	1.345	Open Manhole	1200	F3.000	98.183	150			
FF-107	99.627	1.684	Open Manhole	1200	F3.001	97.943	150	F3.000	97.943	150
FF-106	99.667	1.927	Open Manhole	1200	F1.004	97.740	225	F1.003	97.740	225
								F3.001	97.879	150
FF-110	99.116	1.350	Open Manhole	1200	F4.000	97.766	150			
FF-112	99.270	1.350	Open Manhole	1200	F5.000	97.920	150			
FF-109	99.421	2.023	Open Manhole	1200	F1.005	97.398	225	F1.004	97.421	225
								F4.000	97.499	150
								F5.000	97.473	150
F109	99.446	2.089	Open Manhole	0		OUTFALL		F1.005	97.357	225

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 3
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

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Network 2017.1.2

MH Name	FF-100	FF-101	FF-102
Hor Scale 500			
Ver Scale 200			
Datum (m)	95.000		
PN	F1.000		F1.001
Dia (mm)	225		225
Slope (1:X)	77.6		145.2
Cover Level (m)	101.163	100.971	100.779
Invert Level (m)	99.722	98.852	98.489
Length (m)	67.487		52.723

MH Name	FF-102	FF-103	FF-106	FF-109	F109
Hor Scale 500					
Ver Scale 200					
Datum (m)	94.000				
PN	F1.002		F1.003	F1.004	F1.005
Dia (mm)	225		225	225	225
Slope (1:X)	91.1		148.7	174.6	201.1
Cover Level (m)	100.150	99.994	99.886	99.790	99.789
Invert Level (m)	98.489	98.026	97.740	97.740	97.421
Length (m)	42.169		21.417	55.692	8.246

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 3
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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Network 2017.1.2

MH Name	FF-105	FF-104	FF-103
Hor Scale 500			
Ver Scale 200			
Datum (m)94.000			
PN	F2.000	F2.001	
Dia (mm)	150	150	
Slope (1:X)	149.2	150.5	
Cover Level (m)	99.878 99.872 99.862	99.824 99.854 99.841	99.790
Invert Level (m)	98.092	98.014 98.014	97.959
Length (m)	11.640	8.277	

MH Name	FF-108	FF-107	FF-106
Hor Scale 500			
Ver Scale 200			
Datum (m)94.000			
PN	F3.000	F3.001	
Dia (mm)	150	150	
Slope (1:X)	77.6	175.7	
Cover Level (m)	99.528 99.570 99.596	99.627 99.639 99.732	99.667
Invert Level (m)	98.183	97.943 97.943	97.879
Length (m)	18.613	11.244	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 3
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
Checked by D O'Brien

XP Solutions

Network 2017.1.2

MH Name		FF-110		FF-109	
Hor Scale 500					
Ver Scale 200					
Datum (m)94.000					
PN					F4.000
Dia (mm)		150			
Slope (1:X)		163.5			
Cover Level (m)		99.116	99.003	98.808	99.421
Invert Level (m)		97.766			97.499
Length (m)			43.661		

MH Name		FF-112		FF-109	
Hor Scale 500					
Ver Scale 200					
Datum (m)94.000					
PN					F5.000
Dia (mm)		150			
Slope (1:X)		95.1			
Cover Level (m)		99.270	99.219	99.177	99.421
Invert Level (m)		97.920			97.473
Length (m)			42.500		

Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD

Foul Network 4

Doc No. WS-03

Prepared by:



December 2018

Manhole Schedules for Foul - Main 4

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out		Pipes In			Backdrop (mm)	
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)		Diameter (mm)
FF-115	99.350	1.425	Open Manhole	1200	F1.000	97.925	225				
FF-116	99.508	1.837	Open Manhole	1200	F1.001	97.671	225	F1.000	97.671	225	
FF-132	99.415	1.350	Open Manhole	1200	F2.000	98.065	150				
FF-118	99.121	1.496	Open Manhole	1200	F2.001	97.625	225	F2.000	97.700	150	
FF-119	99.193	1.793	Open Manhole	1200	F2.002	97.400	225	F2.001	97.400	225	
FF-117	99.242	1.965	Open Manhole	1200	F1.002	97.277	225	F1.001	97.457	225	180
								F2.002	97.277	225	
FF-121	99.165	1.250	Open Manhole	1200	F3.000	97.915	150				
FF-120	99.027	1.909	Open Manhole	1200	F1.003	97.118	225	F1.002	97.118	225	342
								F3.000	97.535	150	
FF-122	98.902	1.911	Open Manhole	1200	F1.004	96.991	225	F1.003	96.991	225	
FF-123	98.759	1.895	Open Manhole	1200	F1.005	96.864	225	F1.004	96.864	225	
FF-128	98.900	0.975	Open Manhole	1200	F4.000	97.925	225				
FF-129	99.300	1.665	Open Manhole	1200	F4.001	97.635	225	F4.000	97.635	225	
FF-130	98.907	1.466	Open Manhole	1200	F4.002	97.441	225	F4.001	97.441	225	
FF-131	98.658	1.463	Open Manhole	1200	F4.003	97.195	225	F4.002	97.195	225	
FF-125	98.684	1.949	Open Manhole	1200	F1.006	96.735	225	F1.005	96.735	225	421
								F4.003	97.156	225	
FF-126	98.690	1.988	Open Manhole	1200	F1.007	96.702	225	F1.006	96.702	225	
FF-127	98.782	2.178	Open Manhole	1200	F1.008	96.604	225	F1.007	96.604	225	
FEX.FMH F.A-13	97.662	1.273	Open Manhole	0		OUTFALL		F1.008	96.389	225	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 4
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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XP Solutions

Network 2017.1.2

MH Name	FF-115	FF-116	FF-117	FF-120	FF-122	FF-123
Hor Scale 500						
Ver Scale 200						
Datum (m) 94.000						
PN	F1.000		F1.001		F1.002	
Dia (mm)	225		225		225	
Slope (1:X)	77.7		199.6		200.2	
Cover Level (m)	99.350 99.391 99.458	99.508 99.378 99.303	99.242 99.266 99.090	99.027 99.009 98.970	98.902 98.860 98.817	98.759
Invert Level (m)	97.925	97.671 97.671	97.457 97.277	97.118 97.118	96.991 96.991	96.864
Length (m)	19.748		42.715		31.725	

MH Name	FF-123	FF-125	FF-126	FF-127	FEX.FMH F.A-13
Hor Scale 500					
Ver Scale 200					
Datum (m) 93.000					
PN	F1.005		F1.006		F1.007
Dia (mm)	225		225		225
Slope (1:X)	200.6		199.2		200.9
Cover Level (m)	98.759 98.721 98.683	98.684 98.689 98.659	98.690 98.718 98.750	98.782 96.864 96.882	97.662
Invert Level (m)	96.864	96.735 96.735	96.702 96.702	96.604 96.604	96.389
Length (m)	25.872		6.574		19.690

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 4
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
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XP Solutions

Network 2017.1.2

MH Name	FF-132	FF-118	FF-119	FF-117
Hor Scale 500				
Ver Scale 200				
Datum (m) 94.000				
PN	F2.000		F2.001	
Dia (mm)	150		225	
Slope (1:X)	149.9		199.9	
Cover Level (m)	99.415	99.321	99.228	99.121
Invert Level (m)	98.065	97.700	97.625	97.400
Length (m)	54.710		44.972	

MH Name	FF-121	FF-120
Hor Scale 500		
Ver Scale 200		
Datum (m) 94.000		
PN	F3.000	
Dia (mm)	150	
Slope (1:X)	77.5	
Cover Level (m)	99.165	99.027
Invert Level (m)	97.915	97.535
Length (m)	29.461	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 4
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
Checked by D O'Brien

XP Solutions

Network 2017.1.2

MH Name	FF-128	FF-129	FF-130	FF-131
Hor Scale	500			
Ver Scale	200			
Datum (m)	94.000			
PN	F4.000	F4.001	F4.002	
Dia (mm)	225	225	225	
Slope (1:X)	199.7	199.7	200.4	
Cover Level (m)	98.900 98.754 98.581	99.300	98.907 98.824 98.741	98.658
Invert Level (m)	97.925	97.635 97.635	97.441 97.441	97.195
Length (m)	57.924	38.746	49.299	

MH Name	FF-131	FF-125
Hor Scale	500	
Ver Scale	200	
Datum (m)	93.000	
PN	F4.003	
Dia (mm)	225	
Slope (1:X)	201.3	
Cover Level (m)	98.658 98.677 98.658	98.684
Invert Level (m)	97.195 97.156	
Length (m)	7.852	

Foul Water Manhole Schedules & Longsections Booklet

Dunshaughlin East SHD

Foul Network 5

Doc No. WS-03

Prepared by:



December 2018

Manhole Schedules for Foul - Main 5

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
FF-136	100.850	1.425	Open Manhole	1200	F1.000	99.425	225				
FF-137	100.711	1.353	Open Manhole	1200	F1.001	99.358	225	F1.000	99.358	225	
FF-138	100.039	1.425	Open Manhole	1200	F2.000	98.614	225				
FF-139	100.380	2.041	Open Manhole	1200	F1.002	98.339	225	F1.001	99.061	225	722
								F2.000	98.339	225	
FF-140	99.372	1.425	Open Manhole	1200	F3.000	97.947	225				
FF-141	98.737	1.425	Open Manhole	1200	F4.000	97.312	225				
FF-142	98.293	1.105	Open Manhole	1200	F3.001	97.188	225	F3.000	97.284	225	96
								F4.000	97.188	225	
FF-143	99.100	0.975	Open Manhole	1200	F5.000	98.125	225				
FF-144	98.836	1.892	Open Manhole	1200	F3.002	96.944	225	F3.001	96.944	225	
								F5.000	97.918	225	974
FF-145	99.484	3.012	Open Manhole	1200	F1.003	96.472	225	F1.002	97.746	225	1274
								F3.002	96.472	225	
FF-146	99.800	1.350	Open Manhole	1200	F6.000	98.450	225				
FF-147	99.700	1.988	Open Manhole	1200	F6.001	97.712	225	F6.000	97.712	225	
FF-148	99.500	3.112	Open Manhole	1200	F1.004	96.388	225	F1.003	96.388	225	
								F6.001	97.624	225	1236
FF-149	99.500	3.135	Open Manhole	0		OUTFALL		F1.004	96.365	225	

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 5
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



Date 13/12/2018
File Dunshaughlin SHD R23.mdx

Designed by JOR Engineering
Checked by D O'Brien

XP Solutions

Network 2017.1.2

MH Name	FF-136	FF-137	FF-139	FF-145	FF-149
Hor Scale 500					
Ver Scale 200					
Datum (m)	94.000				
PN	F1.000		F1.001		F1.002
Dia (mm)	225		225		225
Slope (1:X)	200.6		167.7		110.1
Cover Level (m)	100.850	100.711	100.603	100.495	100.380
Invert Level (m)	99.425	99.358	99.358	99.061	98.339
Length (m)	13.439		49.812		65.282

MH Name	FF-138	FF-139
Hor Scale 500		
Ver Scale 200		
Datum (m)	95.000	
PN	F2.000	
Dia (mm)	225	
Slope (1:X)	200.3	
Cover Level (m)	100.039	100.156
Invert Level (m)	98.614	98.339
Length (m)		55.088

Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 5
Dunshaughlin East SHD
Dunshaughlin, Co. Meath

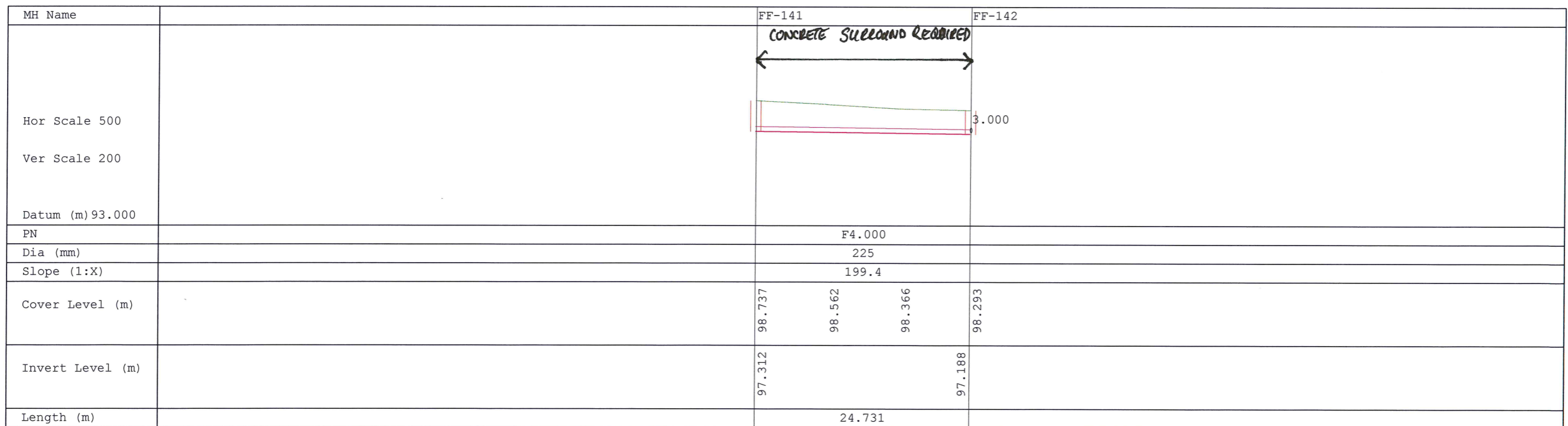
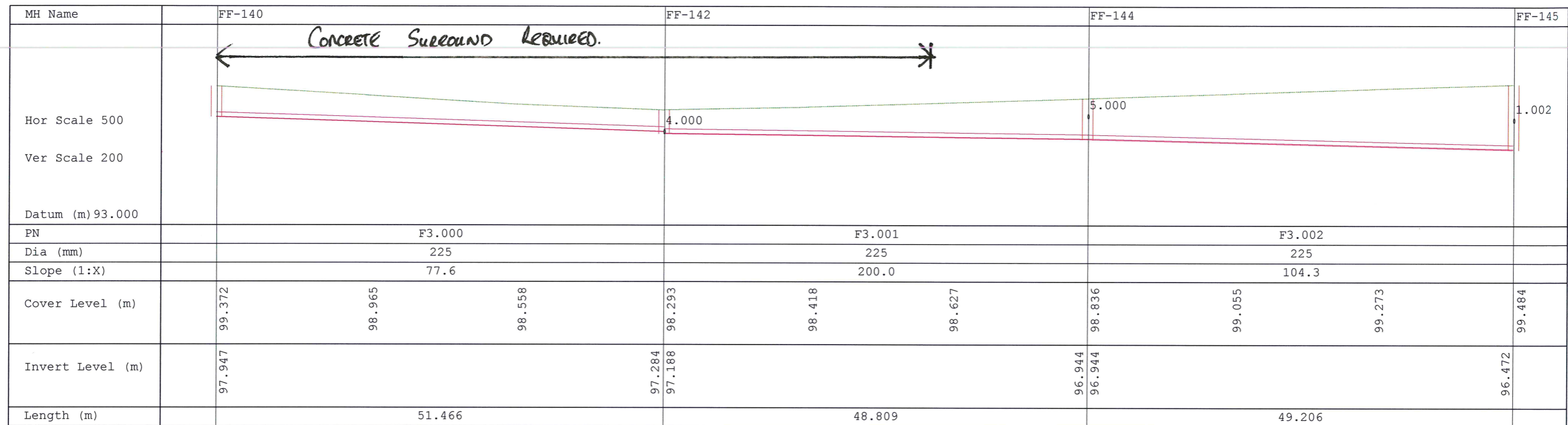


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XP Solutions

Network 2017.1.2



Unit 1, St. Therese's Place
Flowerhill, Navan
Co. Meath

Long Section - Foul Network 5
Dunshaughlin East SHD
Dunshaughlin, Co. Meath



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XP Solutions

Network 2017.1.2

MH Name	FF-143	FF-144
Hor Scale 500		
Ver Scale 200		
Datum (m) 93.000		
PN	F5.000	
Dia (mm)	225	
Slope (1:X)	77.8	
Cover Level (m)	99.100	98.836
Invert Level (m)	98.125	97.918
Length (m)	16.096	

MH Name	FF-146	FF-147	FF-148
Hor Scale 500			
Ver Scale 200			
Datum (m) 93.000			
PN	F6.000	F6.001	
Dia (mm)	225	225	
Slope (1:X)	77.6	201.0	
Cover Level (m)	99.800	99.700	99.500
Invert Level (m)	98.450	97.712	97.624
Length (m)	57.252	17.684	