

Appendix A.8.5

Network Drainage Schedules

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S1 (Doc Ref. GCOB-4.03.03.03.3-001)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽³⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S1-1.000	225	S1-1	36.1	34.6	S1-2	34.562	32.879	67.589	CD			1.28	1.46	1.37	1.50	1.68	1.59	0-2	39	S	F1050
S1-1.001	225	S1-2	34.562	32.879	S1-3	32.217	30.534	67.499	CD			1.46	1.46	1.46	1.68	1.68	1.68	0-2	29	S	C1050
S1-1.002	225	S1-3	32.217	30.534	S1-4	32.652	30.438	16.469	CD			1.46	1.99	1.72	1.68	2.21	1.95	0-2	172	S	C1050
S1-1.003	225	S1-4	32.652	30.438	S1-5	27.982	25.924	99.868	CD			1.99	1.83	1.91	2.21	2.06	2.14	2-4	22	S	C1050
S1-1.004	300	S1-5	27.982	25.849	S1-6	23.602	21.469	97.751	CD			1.83	1.83	1.83	2.13	2.13	2.13	2-4	22	S	C1050
S1-1.005	300	S1-6	23.602	21.469	S1-7	19.6	17.467	88.989	CD			1.83	1.83	1.83	2.13	2.13	2.13	2-4	22	S	C1050
S1-1.006	300	S1-7	19.6	17.467	S1-8	16.275	14.142	72.452	CD			1.83	1.83	1.83	2.13	2.13	2.13	2-4	22	S	C1050
S1-1.007	300	S1-8	16.275	14.142	S1-9	13.087	10.954	75.259	CD			1.83	1.83	1.83	2.13	2.13	2.13	2-4	24	S	C1050
S1-1.008	300	S1-9	13.087	10.954	S1-24	11.4	9.325	58.609	CD			1.83	1.78	1.80	2.13	2.08	2.10	2-4	36	S	C1050
S1-2.000	225	S1-10	32.072	30.572	S1-11	28	26.5	96.961	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S1-2.001	225	S1-11	28	26.5	S1-12	23.555	22.055	98.276	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S1-2.002	225	S1-12	23.555	22.055	S1-13	19.547	18.047	89.068	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S1-2.003	225	S1-13	19.547	18.047	S1-14	16.261	14.761	73.076	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S1-2.004	300	S1-14	16.261	14.686	S1-15	13.447	11.872	74.838	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	27	S	F1050
S1-2.005	300	S1-15	13.447	11.872	S1-23	11.947	10.372	57.697	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	38	S	F1050
S1-3.000	225	S1-16	10.993	9.493	S1-23	11.947	8.718	25.881	CD			1.28	3.00	2.14	1.50	3.23	2.36	2-4	33	S	F1050
S1-4.000	225	S1-17	10.723	9.223	S1-18	10.975	9.048	29.858	CD			1.28	1.70	1.49	1.50	1.93	1.71	0-2	171	S	F1050
S1-4.001	225	S1-18	10.975	9.048	S1-22	10.979	8.718	56.281	CD			1.70	2.04	1.87	1.93	2.26	2.09	2-4	171	S	C1050
S1-5.000	225	S1-19	10.87	9.37	S1-20	11.123	9.12	42.292	CD			1.28	1.78	1.53	1.50	2.00	1.75	0-2	169	S	F1050
S1-5.001	225	S1-20	11.123	9.12	S1-21	11.334	8.875	41.789	CD			1.78	2.23	2.01	2.00	2.46	2.23	2-4	171	S	C1050
S1-5.002	225	S1-21	11.334	8.875	S1-22	10.979	8.718	18.04	CD			2.23	2.04	2.14	2.46	2.26	2.36	2-4	115	S	C1050
S1-4.002	225	S1-22	10.979	8.718	S1-23	11.947	8.563	25.837	CD			2.04	3.16	2.60	2.26	3.38	2.82	2-4	167	S	C1050
S1-2.006	600	S1-23	11.947	8.188	S1-24	11.4	8.038	23.937	CD			3.16	2.76	2.96	3.76	3.36	3.56	2-4	160	S	D1200
S1-1.009	675	S1-24	11.4	7.963	S1-31	12	7.933	14.403	CD			2.76	3.39	3.08	3.44	4.07	3.75	2-4	480	S	C1350
S1-6.000	225	S1-25	9.773	8.273	S1-29	10.782	7.863	70.048	CD			1.28	2.69	1.98	1.50	2.92	2.21	2-4	171	S	F1050
S1-7.000	225	S1-26	9.868	8.368	S1-28	10.492	8.018	59.9	CD			1.28	2.25	1.76	1.50	2.47	1.99	0-2	171	S	F1050
S1-8.000	225	S1-27	10.769	9.269	S1-28	10.492	8.018	53.468	CD			1.28	2.25	1.76	1.50	2.47	1.99	0-2	43	S	F1050
S1-7.001	225	S1-28	10.492	8.018	S1-29	10.782	7.863	14.215	CD			2.25	2.69	2.47	2.47	2.92	2.70	2-4	92	S	C1050
S1-6.001	225	S1-29	10.782	7.863	S1-30	11.23	7.578	44.486	CD			2.69	3.43	3.06	2.92	3.65	3.29	2-4	156	S	C1050
S1-6.002	225	S1-30	11.23	7.578	S1-31	12	7.43	25.187	CD			3.43	4.35	3.89	3.65	4.57	4.11	4-6	170	S	D1050
S1-1.010	675	S1-31	12	6.98	S1-32	12	6.76	6.456	CD			4.35	4.57	4.46	5.02	5.24	5.13	4-6	29	S	D1350
S1-1.013	225	S1-34	12.5	6.435	S1-35	9.45	6.345	36.523	CD			5.84	2.88	4.36	6.07	3.11	4.59	4-6	406	S	D1050
S1-1.014	375	S1-35	9.45	6.345	S1-36	9.45	6.195	54.332	CD			2.73	2.88	2.81	3.11	3.26	3.18	2-4	362	S	C1050
S1-1.015	375	S1-36	9.45	6.12	S1-37	9.45	5.98	54.276	CD			2.96	3.10	3.03	3.33	3.47	3.40	2-4	388	S	C1050
S1-1.016	375	S1-37	9.45	5.98	S1-100	9.45	5.86	32.184	CD			3.10	3.22	3.16	3.47	3.59	3.53	2-4	268	S	D1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																	
S1-3.000	RB	MLN 0+000																	
S1-4.000	SR	MLN 0+000																	
S1-4.001	SR	MLN 0+000																	
S1-5.000	SR	MLN 0+000																	
S1-5.001	SR	MLN 0+000																	
S1-5.002	RB	MLN 0+000																	
S1-4.002	RB	MLN 0+000																	
S1-6.000	SR	MLN 0+000																	
S1-7.000	SR	MLN 0+000																	
S1-8.000	SR	MLN 0+000																	
S1-6.001	SR	MLN 0+000																	

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 0+050	MLN 0+550	492.928																
SWC	MLN 0+050	MLN 0+550	489.916																
SWC	MLN 0+550	MLN 0+690	135.088																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																	
		S1-1.010	Petrol Interceptor Class 1 Bypass Separator NSB 050 Spillage Containment Area 25m3																
		S1-1.011	Wetland - Vt 192.75m3																
		S1-1.012	Attenuation Pond - Volume of Storage 893.9m3																
		MH S1/34	Hydrobreak - Qbar 7.4l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road**Drainage: Schedule S2 (Doc Ref. GCOB-4.03.03.03-002)**

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽²⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S2-1.000	225	S2-1	41.588	40.088	S2-2	40.4	38.9	60.234	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S2-1.001	225	S2-2	40.4	38.9	S2-3	39.471	37.971	46.904	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	50	K	F1050
S2-1.002	225	S2-3	39.471	37.971	S2-4	37.886	36.386	80.793	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	K	F1050
S2-1.003	300	S2-4	37.886	36.311	S2-5	36.355	34.78	79.733	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	52	S	F1050
S2-1.004	300	S2-5	36.355	34.78	S2-10	36.6	34.67	27.165	CD			1.28	1.63	1.45	1.58	1.93	1.75	0-2	247	S	F1050
S2-2.000	225	S2-6	42.3	40.822	S2-7	41.565	40.065	49.419	CD			1.25	1.28	1.26	1.48	1.50	1.49	0-2	65	S	F1050
S2-2.001	225	S2-7	41.565	40.065	S2-8	40.057	38.557	79.576	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	53	S	F1050
S2-2.002	225	S2-8	40.057	38.557	S2-9	38.5	37	82.446	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	53	S	F1050
S2-2.003	225	S2-9	38.5	37	S2-10	36.6	35.1	105.034	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	55	S	F1050
S2-1.005	300	S2-10	36.6	32.975	S2-11	34.5	32.925	11.664	CD			3.33	1.28	2.30	3.63	1.58	2.60	2-4	233	S	D1050
S2-1.006	375	S2-11	34.5	32.85	S2-12	34.5	32.6	5.217	CD			1.28	1.53	1.40	1.65	1.90	1.78	0-2	21	S	F1050
S2-1.009	225	S2-14	33	31.45	S2-100	31.5	31.25	19.131	CD			1.33	0.03	0.68	1.55	0.25	0.90	0-2	96	S	F1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	(22)																		
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 0+675	MLN 0+990	316.475																
SWC	MLN 0+700	MLN 0+775	79.733																
SWC	MLN 0+910	MLN 0+975	60.234																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S2-1.006	Petrol Interceptor Class 1 Bypass Separator NSB 015																
			Spillage Containment Area 25m3																
		S2-1.007	Wetland - Vt 56.55m3																
		S2-1.008	Attenuation Pond - Volume of Storage 184m3																
		MH S2/14	Orifice - Design discharge 5l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S3 (Doc Ref. GCOB-4.03.03.03.3-003)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S3-1.000	225	S3-1	56.034	54.534	S3-5	54.84	53.34	35.594	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	30	K	F1050
S3-2.000	225	S3-2	56.153	54.653	S3-3	55.799	54.153	21.911	FD			1.28	1.42	1.35	1.50	1.65	1.57	0-2	44	K	F1050
S3-2.001	225	S3-3	55.799	54.153	S3-4	55.353	53.553	13.485	FD			1.42	1.58	1.50	1.65	1.80	1.72	0-2	22	K	C1050
S3-2.002	225	S3-4	55.353	53.553	S3-5	54.84	53.063	9.57	CD			1.58	1.55	1.56	1.80	1.78	1.79	0-2	20	S	C1050
S3-1.001	225	S3-5	54.84	53.063	S3-6	53.187	51.687	26.634	FD			1.55	1.28	1.41	1.78	1.50	1.64	0-2	19	K	C1050
S3-1.002	225	S3-6	53.187	51.687	S3-7	51.943	50.443	25.84	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	21	K	F1050
S3-1.003	225	S3-7	51.943	50.443	S3-8	51.087	49.587	30.479	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	K	F1050
S3-1.004	225	S3-8	51.087	49.587	S3-9	50.722	49.222	50.409	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	138	S	F1050
S3-1.005	225	S3-9	50.722	49.222	S3-10	50.542	49.007	36.734	CD			1.28	1.31	1.29	1.50	1.54	1.52	0-2	171	S	F1050
S3-1.006	225	S3-10	50.542	49.007	S3-11	50.3	48.714	49.548	CD			1.31	1.36	1.34	1.54	1.59	1.56	0-2	169	S	F1050
S3-1.007	300	S3-11	50.3	48.639	S3-12	49.979	48.379	63.655	CD			1.36	1.30	1.33	1.66	1.60	1.63	0-2	245	S	C1050
S3-1.008	300	S3-12	49.979	48.379	S3-13	49.043	47.468	88.289	CD			1.30	1.28	1.29	1.60	1.58	1.59	0-2	97	S	F1050
S3-1.009	300	S3-13	49.043	47.468	S3-25	49.07	47.43	9.313	CD			1.28	1.34	1.31	1.58	1.64	1.61	0-2	245	S	F1050
S3-3.000	225	S3-14	51.013	49.513	S3-15	50.674	49.174	49.305	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	145	S	F1050
S3-3.001	225	S3-15	50.674	49.174	S3-19	50.257	48.757	58.451	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	140	S	F1050
S3-4.000	225	S3-16	56.432	54.284	S3-17	53.498	51.782	51.255	CD			1.92	1.49	1.71	2.15	1.72	1.93	0-2	20	S	C1050
S3-4.001	225	S3-17	53.498	51.782	S3-18	51.112	49.445	45.102	CD			1.49	1.44	1.47	1.72	1.67	1.69	0-2	19	S	C1050
S3-4.002	225	S3-18	51.112	49.445	S3-19	50.257	48.757	13.19	CD			1.44	1.28	1.36	1.67	1.50	1.58	0-2	19	S	C1050
S3-3.002	300	S3-19	50.257	48.682	S3-23	50.211	48.557	30.732	CD			1.28	1.35	1.31	1.58	1.65	1.61	0-2	246	S	F1050
S3-5.000	225	S3-20	56.032	54.284	S3-21	53.27	51.895	47.614	CD			1.52	1.15	1.34	1.75	1.38	1.56	0-2	20	S	C1050
S3-5.001	225	S3-21	53.27	51.895	S3-22	50.444	49.069	59.995	CD			1.15	1.15	1.15	1.38	1.38	1.38	0-2	21	S	F1050
S3-5.002	225	S3-22	50.444	49.069	S3-23	50.211	48.757	12.839	CD			1.15	1.23	1.19	1.38	1.45	1.41	0-2	41	S	F1050
S3-3.003	300	S3-23	50.211	48.557	S3-24	49.783	48.208	84.984	CD			1.35	1.28	1.31	1.65	1.58	1.61	0-2	244	S	C1050
S3-3.004	300	S3-24	49.783	48.208	S3-25	49.07	47.43	49.438	FD			1.28	1.34	1.31	1.58	1.64	1.61	0-2	64	K	F1050
S3-1.010	375	S3-25	49.07	47.355	S3-27	49.006	47.073	18.498	CD			1.34	1.56	1.45	1.72	1.93	1.82	0-2	66	S	F1050
S3-6.000	225	S3-26	48.933	47.433	S3-27	49.006	47.223	35.675	FD			1.28	1.56	1.42	1.50	1.78	1.64	0-2	170	K	F1050
S3-1.011	375	S3-27	49.006	47.073	S3-28	48.33	46.68	75.689	CD			1.56	1.28	1.42	1.93	1.65	1.79	0-2	193	S	C1050
S3-1.012	375	S3-28	48.33	46.68	S3-29	45.75	44.1	96.399	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	37	S	F1050
S3-1.013	375	S3-29	45.75	44.1	S3-30	44.25	42.6	62.483	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	42	S	F1050
S3-1.014	375	S3-30	44.25	42.6	S3-34	44.944	42.543	18.638	CD			1.28	2.03	1.65	1.65	2.40	2.03	2-4	327	S	F1050
S3-7.000	225	S3-31	49.769	48.269	S3-32	47.571	46.071	93.27	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	42	S	F1050
S3-7.001	225	S3-32	47.571	46.071	S3-33	46.196	44.696	71.397	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	52	S	F1050
S3-7.002	225	S3-33	46.196	44.696	S3-34	44.944	42.543	66.205	CD			1.28	2.18	1.73	1.50	2.40	1.95	0-2	31	S	F1050
S3-1.015	375	S3-34	44.944	42.393	S3-35	43.424	41.774	77.115	CD			2.18	1.28	1.73	2.55	1.65	2.10	2-4	125	S	C1050
S3-1.016	375	S3-35	43.424	41.774	S3-36	42.4	40.75	63.677	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	62	S	F1050
S3-1.017	300	S3-36	42.4	40.75	S3-44	41.778	40.203	22.778	CD			1.35	1.28	1.31	1.65	1.58	1.61	0-2	42	S	F1050
S3-8.000	225	S3-37	51.218	49.718	S3-38	50.419	48.919	40.707	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	K	F1050
S3-8.001	225	S3-38	50.419	48.919	S3-39	49.391	47.891	64.7	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	63	S	F1050
S3-8.002	225	S3-39	49.391	47.891	S3-40	47.537	46.037	88.505	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S3-8.003	300	S3-40	47.537	45.962	S3-41	46.214	44.639	77.463	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	59	S	F1050
S3-8.004	300	S3-41	46.214	44.639	S3-42	44.572	42.997	78.252	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	48	S	F1050
S3-8.005	300	S3-42	44.572	42.997	S3-43	42.839	41.264	89.545	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	52	S	F1050
S3-8.006	300	S3-43	42.839	41.264	S3-44	41.778	40.203	49.492	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	47	S	F1050
S3-1.018	450	S3-44	41.778	38.425	S3-65	39.85	38.125	13.948	CD			2.90	1.28	2.09	3.35	1.73	2.54	2-4	46	S	C1050
S3-9.000	225	S3-45	57.599	55.87	S3-46	54.788	53.059	80.404	CD			1.50	1.50	1.50	1.73	1.73	1.73	0-2	29	S	C1050
S3-9.001	225	S3-46	54.788	53.059	S3-47	50.432	48.859	80.502	CD			1.50	1.35	1.43	1.73	1.57	1.65	0-2	19	S	C1050

S3-9.002	225	S3-47	50.432	48.859	S3-57	46.159	44.659	80.447	CD			1.35	1.28	1.31	1.57	1.50	1.54	0-2	19	S	F1050
S3-10.000	225	S3-48	57.385	55.885	S3-52	57.267	55.615	11.595	CD			1.28	1.43	1.35	1.50	1.65	1.58	0-2	43	S	F1050
S3-11.000	225	S3-49	57.26	55.76	S3-51	57.477	55.698	10.561	CD			1.28	1.55	1.41	1.50	1.78	1.64	0-2	170	S	F1050
S3-12.000	225	S3-50	57.613	56.113	S3-51	57.477	55.698	17.268	CD			1.28	1.55	1.41	1.50	1.78	1.64	0-2	42	S	F1050
S3-11.001	225	S3-51	57.477	55.698	S3-52	57.267	55.615	14.178	CD			1.55	1.43	1.49	1.78	1.65	1.72	0-2	171	S	C1050
S3-10.001	225	S3-52	57.267	55.615	S3-53	56.622	55.03	15.215	CD			1.43	1.37	1.40	1.65	1.59	1.62	0-2	26	S	C1050
S3-10.002	225	S3-53	56.622	55.03	S3-54	53.317	51.817	62.861	CD			1.37	1.28	1.32	1.59	1.50	1.55	0-2	20	S	C1050
S3-10.003	225	S3-54	53.317	51.683	S3-55	49.943	48.443	62.7	CD			1.41	1.28	1.34	1.63	1.50	1.57	0-2	19	S	C1050
S3-10.004	225	S3-55	49.943	48.443	S3-56	46.706	45.206	62.8	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	19	K	F1050
S3-10.005	225	S3-56	46.706	45.206	S3-57	46.159	44.659	12.287	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S3-9.003	225	S3-57	46.159	44.659	S3-58	44.823	43.323	27.203	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	20	K	F1050
S3-9.004	225	S3-58	44.823	43.323	S3-59	43.815	42.315	23.442	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	23	K	F1050
S3-9.005	225	S3-59	43.815	42.315	S3-61	42.837	41.337	28.584	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	K	F1050
S3-13.000	225	S3-60	41.502	40.002	S3-61	42.837	39.742	42.178	FD			1.28	2.87	2.07	1.50	3.10	2.30	2-4	162	K	F1050
S3-9.006	300	S3-61	42.837	39.667	S3-63	42.829	39.629	9.044	CD			2.87	2.90	2.89	3.17	3.20	3.19	2-4	238	S	C1050
S3-14.000	225	S3-62	41.075	39.575	S3-63	42.829	39.298	47.463	FD			1.28	3.31	2.29	1.50	3.53	2.52	2-4	171	K	F1050
S3-9.007	300	S3-63	42.829	39.223	S3-64	41.75	38.953	54.844	CD			3.31	2.50	2.90	3.61	2.80	3.20	2-4	203	S	D1050
S3-9.008	300	S3-64	41.75	38.953	S3-65	39.85	38.275	89.841	CD			2.50	1.28	1.89	2.80	1.58	2.19	2-4	133	S	C1050
S3-1.019	525	S3-65	39.85	38.05	S3-66	40.7	37.8	13.968	CD			1.28	2.38	1.83	1.80	2.90	2.35	2-4	56	S	C1200
S3-1.022	225	S3-68	39	37.125	S3-69	37.3	36.665	24.747	CD			1.65	0.41	1.03	1.88	0.63	1.26	0-2	54	S	C1050
S3-1.023	225	S3-69	37.3	36.665	S3-100	37	36.405	12.364	CD			0.41	0.37	0.39	0.63	0.59	0.61	0-2	48	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾	Chainage ⁽²²⁾
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3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 1+000	MLN 1+375	371.664																
SWC	MLN 0+980	MLN 1+425	447.957																
SWC	MLN 1+375	MLN 1+375	288.635																
SWC	MLN 1+375	MLN 1+375	107.756																
SWC	MLN 1+375	MLN 1+375	109.547																
SWC	MLN 1+375	MLN 1+375	205.432																
SWC	MLN 1+375	MLN 1+375	241.353																
SWC	MLN 1+375	MLN 1+375	152.371																
SWC	MLN 1+375	MLN 1+375	27.829																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		Petrol Interceptor Class 1 Bypass Separator NSB 040
	S3-1.019	Spillage Containment Area 25m3
	S3-1.020	Wetland - Vt 192.15m3
	S3-1.021	Attenuation Pond - Volume of Storage 1027.6m3
	MH S3/68	Orifice - Qbar 8.3l/s

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S4A (Doc Ref. GCOB-4.03.03.03.3-004)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S4-1.000	225	S4-1	58.896	57.4	S4-2	58.108	56.608	97.157	CD			1.27	1.28	1.27	1.50	1.50	1.50	0-2	123	S	F1050
S4-1.001	225	S4-2	58.108	56.608	S4-3	56.554	55.054	97.782	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	63	S	F1050
S4-1.002	225	S4-3	56.554	55.054	S4-4	54.648	53.148	92.422	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S4-1.003	300	S4-4	54.648	53.073	S4-8	54.326	52.751	15.436	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	48	S	F1050
S4-2.000	225	S4-5	58.9	57.4	S4-6	58.021	56.521	97.003	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	110	S	F1050
S4-2.001	225	S4-6	58.021	56.521	S4-7	56.165	54.665	95.963	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	52	S	F1050
S4-2.002	225	S4-7	56.165	54.665	S4-8	54.326	52.826	96.104	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	52	S	F1050
S4-1.004	300	S4-8	54.326	52.751	S4-9	52.594	51.019	88.783	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	51	S	F1050
S4-1.005	300	S4-9	52.594	51.019	S4-10	51.436	49.861	55.908	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	48	S	F1050
S4-1.006	450	S4-10	51.436	49.711	S4-11	50.62	49.679	11.378	CD			1.28	0.49	0.88	1.73	0.94	1.33	0-2	356	S	F1050
S4-1.007	450	S4-11	50.62	49.679	S4-20	50.75	49.629	15.885	CD			0.49	0.67	0.58	0.94	1.12	1.03	0-2	318	S	F1050
S4-3.000	225	S4-12	57.552	56.052	S4-15	57.011	55.511	25.965	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S4-4.000	225	S4-13	57.57	56.07	S4-14	57.128	55.628	27.029	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	61	S	F1050
S4-4.001	225	S4-14	57.128	55.628	S4-15	57.011	55.256	7.97	CD			1.28	1.53	1.40	1.50	1.76	1.63	0-2	21	S	F1050
S4-3.001	225	S4-15	57.011	55.256	S4-17	53.656	52.156	59.66	CD			1.53	1.28	1.40	1.76	1.50	1.63	0-2	19	S	C1050
S4-5.000	225	S4-16	51.951	50.451	S4-17	53.656	50.289	27.577	CD			1.28	3.14	2.21	1.50	3.37	2.43	2-4	170	S	F1050
S4-3.002	300	S4-17	53.656	50.214	S4-18	53.867	50.178	8.773	CD			3.14	3.39	3.27	3.44	3.69	3.57	2-4	244	S	D1050
S4-3.003	300	S4-18	53.867	50	S4-19	50.75	49.965	8.476	CD			3.57	0.48	2.03	3.87	0.78	2.33	2-4	242	S	D1050
S4-3.004	300	S4-19	50.75	49.965	S4-20	50.75	49.865	24.517	CD			0.48	0.58	0.53	0.78	0.88	0.83	0-2	245	S	F1050
S4-1.008	525	S4-20	50.75	49.554	S4-21	50.75	49.329	12.989	CD			0.67	0.90	0.78	1.20	1.42	1.31	0-2	58	S	B
S4-1.011	300	S4-23	50	48.754	S4-100	49.01	48.71	7.466	CD			0.95	0.00	0.47	1.25	0.30	0.77	0-2	170	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage

3. Grassed & Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 1+625	MLN 1+915	287.361																
SWC	MLN 1+475	MLN 1+915	433.761																
SWC	MLN 1+400	MLN 1+400	112.654																
SWC	MLN 1+400	MLN 1+400	27.577																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S4-1.008	Petrol Interceptor Class 1 Bypass Separator NSB 025 Spillage Containment Area 25m3
		S4-1.009	Wetland - Vt 93.6m3
		S4-1.010	Attenuation Pond - Volume of Storage 324m3
		MH S4/23	Orifice - Design discharge 5l/s

N6 GCRR Drainage Schedules

N6 Galway City Ring Road**Drainage: Schedule S4B (Doc Ref. GCOB-4.03.03.03-005)**

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S4-6.000	225	S4-B24	51.501	50.001	S4-B25	49.403	47.903	40.154	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	19	S	F1050
S4-6.001	225	S4-B25	49.403	47.903	S4-B27	48.225	46.725	49.983	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	42	K	F1050
S4-7.000	225	S4-B26	48.2	46.7	S4-B27	48.225	46.65	8.417	FD			1.28	1.35	1.31	1.50	1.58	1.54	0-2	168	K	F1050
S4-6.002	300	S4-B27	48.225	46.25	S4-B28	47	46.01	6.703	CD			1.68	0.69	1.18	1.98	0.99	1.48	0-2	28	S	C1050
S4-6.005	225	S4-B30	46.25	45.81	S4-B100	45.975	45.75	7.94	CD			0.21	0.00	0.11	0.44	0.23	0.33	0-2	132	S	F1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
		⁽²²⁾																	
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 1+550	MLN 1+550	40.154																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		Petrol Interceptor Class 1 Bypass Separator NSB 004 Spillage Containment Area 25m3 S4-6.002																	
		Wetland - Vt 10.35m3 Attenuation Pond - Volume of Storage 21.2m3 S4-6.004 Orifice - Design MH S4/30 discharge 5l/s																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S5A (Doc Ref. GCOB-4.03.03.3-006)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S5-1.000	225	S5-1	58.924	57.424	S5-2	58.2	56.7	98.952	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	137	S	F1050
S5-1.001	225	S5-2	58.2	56.7	S5-3	56.421	54.921	84.968	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S5-1.002	225	S5-3	56.421	54.921	S5-4	54.536	53.036	85.024	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S5-1.003	225	S5-4	54.536	53.036	S5-5	52.651	51.151	84.523	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S5-1.004	225	S5-5	52.651	51.151	S5-6	51.081	49.581	74.965	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S5-1.005	300	S5-6	51.081	49.506	S5-7	49.459	47.884	72.165	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	44	S	F1050
S5-1.006	300	S5-7	49.459	47.884	S5-8	47.915	46.34	69.994	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	45	S	F1050
S5-1.007	300	S5-8	47.915	46.34	S5-9	46.509	44.934	64.939	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	46	S	F1050
S5-1.008	300	S5-9	46.509	44.934	S5-10	45.328	43.634	69.979	CD			1.28	1.39	1.33	1.58	1.69	1.63	0-2	54	S	F1050
S5-1.009	300	S5-10	45.328	43.634	S5-11	44.264	42.57	59.794	CD			1.39	1.39	1.39	1.69	1.69	1.69	0-2	56	S	C1050
S5-1.010	375	S5-11	44.264	42.495	S5-14	42.986	41.616	75.522	CD			1.39	0.99	1.19	1.77	1.37	1.57	0-2	86	S	C1050
S5-2.000	300	S5-12	43.977	42.777	S5-13	43.136	41.936	39.6	CD	RC		0.90	0.90	0.90	1.20	1.20	1.20	0-2	47	Z	F1050
S5-2.001	300	S5-13	43.136	41.936	S5-14	42.986	41.766	40.486	CD	RC		0.90	0.92	0.91	1.20	1.22	1.21	0-2	238	Z	F1050
S5-1.011	450	S5-14	42.986	41.541	S5-29	43.78	41.463	23.407	CD	RC		1.00	1.87	1.43	1.45	2.32	1.88	0-2	300	Z	F1050
S5-3.000	225	S5-15	58.895	57.395	S5-16	58.194	56.694	98.967	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	141	S	F1050
S5-3.001	225	S5-16	58.194	56.694	S5-17	56.624	55.124	75	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S5-3.002	225	S5-17	56.624	55.124	S5-18	55.008	53.508	73.908	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S5-3.003	225	S5-18	55.008	53.508	S5-19	53.441	51.941	70.761	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S5-3.004	225	S5-19	53.441	51.941	S5-20	52.2	50.7	80.521	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	65	S	F1050
S5-3.005	225	S5-20	52.2	50.7	S5-21	50.136	48.636	91.501	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S5-3.006	225	S5-21	50.136	48.636	S5-22	48.03	46.53	92.305	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S5-3.007	225	S5-22	48.03	46.53	S5-23	46.441	44.941	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	57	S	F1050
S5-3.008	225	S5-23	46.441	44.941	S5-24	44.887	43.387	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	58	S	F1050
S5-3.009	225	S5-24	44.887	43.387	S5-29	43.78	42.28	88.009	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	80	K	F1050
S5-4.000	225	S5-25	45.606	44.106	S5-26	44.177	42.677	73.49	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	K	F1050
S5-4.001	225	S5-26	44.177	42.677	S5-27	44.034	42.377	51.26	FD			1.28	1.43	1.35	1.50	1.66	1.58	0-2	171	K	F1050
S5-4.002	300	S5-27	44.034	42.302	S5-28	43.82	42.079	37.263	CD			1.43	1.44	1.44	1.73	1.74	1.74	0-2	167	S	C1050
S5-4.003	300	S5-28	43.82	42.079	S5-29	43.78	41.929	25.015	CD			1.44	1.55	1.50	1.74	1.85	1.80	0-2	167	S	C1050
S5-1.012	450	S5-29	43.78	41.463	S5-30	42.3	41.25	9.437	CD			1.87	0.60	1.23	2.32	1.05	1.68	0-2	44	S	C1050
S5-1.013	450	S5-30	42.3	41.25	S5-31	42.3	41.15	10.832	CD			0.60	0.70	0.65	1.05	1.15	1.10	0-2	108	S	F1050
S5-1.015	300	S5-34	42.75	40.661	S5-100	42	40.543	26.259	CD			1.79	1.16	1.47	2.09	1.46	1.77	0-2	223	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																	
S5-2.000	RB	MLN 2+800																	
S5-2.001	RB	MLN 2+800																	
S5-4.002	RB	MLN 2+800																	
S5-4.003	RB	MLN 2+800																	

3. Grassed & Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 2+680	MLN 2+750	75.522																
SWC	MLN 1+920	MLN 2+670	762.963																
SWC	MLN 1+920	MLN 2+670	765.303																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																	
		S5-1.013	Petrol Interceptor Class 1 Bypass Separator NSB 030																
			Spillage Containment Area 25m3																
		S5-1.014	Wetland - Vt 229.8m3																
		S5-5.000	Attenuation Pond - Volume of Storage 977m3																
		MH S5/34	Hydrobrake - Qbar 8.8l/s																

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
Drainage: Schedule S5B (Doc Ref. GCOB-4.03.03.3-007) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S5-6.000	225	S5-B35	42.3	40.8	S5-B36	40.91	39.41	60.52	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	K	F1050
S5-6.001	225	S5-B36	40.91	39.41	S5-B37	38.23	36.73	71.813	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	27	K	F1050
S5-6.002	300	S5-B37	38.23	36.655	S5-B40	38.21	36.585	6.761	CD			1.28	1.33	1.30	1.58	1.63	1.60	0-2	97	S	F1050
S5-7.000	225	S5-B38	42.646	41.146	S5-B39	41.161	39.661	61.791	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	42	K	F1050
S5-7.001	225	S5-B39	41.161	39.075	S5-B40	38.21	36.66	72.445	FD			1.86	1.33	1.59	2.09	1.55	1.82	0-2	30	K	C1050
S5-6.003	300	S5-B40	38.21	36.585	S5-B41	35.2	34.225	42.744	CD			1.33	0.68	1.00	1.63	0.98	1.30	0-2	18	S	F1050
S5-6.004	300	S5-B41	35.2	34.225	S5-B100	35.2	34.205	4.213	CD			0.68	0.70	0.69	0.98	1.00	0.99	0-2	211	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number

N6 GCRR Drainage Schedules

N6 Galway City Ring Road**Drainage: Schedule S7A (Doc Ref. GCOB-4.03.03.03-008)**

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S7A-1.000	225	S7A-1	43.453	41.953	S7A-2	42.786	41.286	63.491	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	95	S	F1050
S7A-1.001	225	S7A-2	42.786	41.286	S7A-3	41.571	40.071	84.948	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	70	S	F1050
S7A-1.002	225	S7A-3	41.571	40.071	S7A-4	40.663	39.163	43.312	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	K	F1050
S7A-1.003	300	S7A-4	40.663	39.088	S7A-5	40.963	39.025	15.429	CD			1.28	1.64	1.46	1.58	1.94	1.76	0-2	245	S	F1050
S7A-1.004	300	S7A-5	40.963	38.18	S7A-6	38.75	37.85	9.185	CD			2.48	0.60	1.54	2.78	0.90	1.84	0-2	28	S	C1050
S7A-1.005	300	S7A-6	38.75	37.85	S7A-7	39.15	37.6	9.866	CD			0.60	1.25	0.92	0.90	1.55	1.23	0-2	39	S	F1050
S7A-1.008	225	S7A-9	38.25	36.8	S7A-100	37.025	36.625	10.412	CD			1.23	0.17	0.70	1.45	0.40	0.93	0-2	59	S	F1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	(22)																		
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 2+850	MLN 3+000	148.439																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S7A-1.005	Petrol Interceptor Class 1 Bypass Separator NSB 010																
			Spillage Containment Area 25m3																
		S7A-1.006	Wetland - Vt 36.6m3																
		S7A-1.007	Attenuation Pond - Volume of Storage 81m3																
		MH S7A/9	Orifice - Design discharge 5l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S7B (Doc Ref. GCOB-4.03.03.3-009)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S7B-1.000	225	S7B-1	40.344	38.844	S7B-2	37.633	36.065	98.34	CD			1.28	1.34	1.31	1.50	1.57	1.53	0-2	35	S	F1050
S7B-1.001	300	S7B-2	37.633	35.99	S7B-3	34.005	32.43	98.321	CD			1.34	1.28	1.31	1.64	1.58	1.61	0-2	28	S	F1050
S7B-1.002	375	S7B-3	34.005	32.355	S7B-4	32.182	30.532	98.505	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	54	S	F1050
S7B-1.003	375	S7B-4	32.182	30.532	S7B-5	31.014	29.364	95.074	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	81	S	F1050
S7B-1.004	450	S7B-5	31.014	29.289	S7B-6	29.891	28.166	92.983	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	83	S	F1050
S7B-1.005	450	S7B-6	29.891	28.166	S7B-7	28.8	27.075	90.194	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	83	S	F1050
S7B-1.006	450	S7B-7	28.8	27.075	S7B-8	27.743	26.018	89.832	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	85	S	F1050
S7B-1.007	450	S7B-8	27.743	26.018	S7B-9	26.626	24.901	89.926	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	81	S	F1050
S7B-1.008	450	S7B-9	26.626	24.901	S7B-10	25.345	23.62	94.222	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	74	S	F1050
S7B-1.009	525	S7B-10	25.345	23.545	S7B-19	25.348	23.513	15.546	CD			1.28	1.31	1.29	1.80	1.84	1.82	0-2	486	S	C1050
S7B-2.000	225	S7B-11	38.25	36.75	S7B-12	34.747	33.247	98.96	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S7B-2.001	225	S7B-12	34.747	33.247	S7B-13	32.667	31.167	98.206	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	47	S	F1050
S7B-2.002	225	S7B-13	32.667	31.167	S7B-14	31.5	30	98.244	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	84	S	F1050
S7B-2.003	225	S7B-14	31.5	30	S7B-15	30.327	28.827	98.569	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	84	S	F1050
S7B-2.004	225	S7B-15	30.327	28.827	S7B-16	29.154	27.654	98.631	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	84	S	F1050
S7B-2.005	225	S7B-16	29.154	27.654	S7B-17	28.035	26.535	94.305	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	84	S	F1050
S7B-2.006	225	S7B-17	28.035	26.535	S7B-18	26.87	25.37	90.85	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	78	S	F1050
S7B-2.007	225	S7B-18	26.87	25.37	S7B-19	25.348	23.848	94.438	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	62	S	F1050
S7B-1.010	525	S7B-19	25.348	19.835	S7B-20	22.1	19.585	22.948	CD			4.99	1.99	3.49	5.51	2.52	4.01	4-6	92	S	D1200
S7B-1.013	225	S7B-22	20.31	19.01	S7B-100	20	18.7	26.805	CD			1.08	1.08	1.08	1.30	1.30	1.30	0-2	86	S	F1050

2. Gully Schedule																	
Pipe Ref.	Location ⁽²¹⁾		Chainage														
	(22)																

3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 3+060	MLN 3+915	847.397																
SWC	MLN 3+150	MLN 3+915	772.203																

4. Attenuation/Pollution Control																		
Start Chainage	End Chainage	Pipe Number																
		S7B-1.010	Petrol Interceptor Class 1 Bypass Separator NSB 050															
			Spillage Containment Area 25m3															
		S7B-1.011	Wetland - Vt 160.5m3															
		S7B-1.012	Attenuation Pond - Volume of Storage 1081.3m3															
		MH S7B/22	Orifice - Qbar 10.6l/s															

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S8 (Doc Ref. GCOB-4.03.03.03-010)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S8-1.000	225	S8-1	25.263	23.763	S8-2	24.533	23.033	78.009	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	107	S	F1050
S8-1.001	225	S8-2	24.533	23.033	S8-4	24.429	22.735	50.447	CD			1.28	1.47	1.37	1.50	1.69	1.60	0-2	169	S	F1050
S8-2.000	225	S8-3	24.554	23.054	S8-4	24.429	22.899	25.902	CD			1.28	1.31	1.29	1.50	1.53	1.52	0-2	167	S	F1050
S8-1.002	300	S8-4	24.429	22.66	S8-9	24	22.457	15.3	CD	RC		1.47	1.24	1.36	1.77	1.54	1.66	0-2	75	Z	C1050
S8-3.000	225	S8-5	25.244	23.744	S8-6	24.335	22.835	82.3	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	91	S	F1050
S8-3.001	225	S8-6	24.335	22.835	S8-9	24	22.532	43.169	CD			1.28	1.24	1.26	1.50	1.47	1.48	0-2	142	S	F1050
S8-4.000	225	S8-7	24.605	23.105	S8-8	23.913	22.413	42.486	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	61	S	F1050
S8-4.001	225	S8-8	23.913	22.413	S8-9	24	22.3	19.042	CD			1.28	1.48	1.38	1.50	1.70	1.60	0-2	169	S	F1050
S8-1.003	300	S8-9	24	22.225	S8-10	24	22.202	4.436	CD			1.48	1.50	1.49	1.78	1.80	1.79	0-2	193	S	C1050
S8-1.004	300	S8-10	24	22.202	S8-11	23.5	21.802	14.531	CD			1.50	1.40	1.45	1.80	1.70	1.75	0-2	36	S	C1050
S8-1.007	225	S8-13	21.3	19.95	S8-100	21	19.38	21.834	CD			1.13	1.40	1.26	1.35	1.62	1.49	0-2	38	S	F1050
S8-5.000	150	S8-14	23.25	22	S8-15	22.75	21.325	8.47	CD			1.10	1.28	1.19	1.25	1.43	1.34	0-2	13	S	F1050
S8-5.001	150	S8-15	22.75	21.325	S8-16	21.6	20.175	31.619	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	27	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 4+000	MLN 4+075	76.349																
GSWC	MLN 4+000	MLN 4+050	43.169																
SWC	MLN 3+900	MLN 3+920	78.009																
SWC	MLN 3+900	MLN 3+920	82.3																
SWC	MLN 4+070	MLN 4+110	42.486																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		Petrol Interceptor Class 1 Bypass Separator NSB 010
		Spillage Containment Area 25m3
		S8-1.005 Wetland - Vt 38.4m3
		S8-1.006 Attenuation Pond - Volume of Storage 114m3
		MH S8/13 Orifice - Design discharge 5l/s

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S9 (Doc Ref. GCOB-4.03.03.03.3-011)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S9-1.000	150	S9-1	48.04	46.615	S9-2	46.24	44.815	90.463	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	50	S	F1050
S9-1.001	225	S9-2	46.24	44.74	S9-3	43.987	42.487	95.488	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	42	S	F1050
S9-1.002	225	S9-3	43.987	42.487	S9-4	41.139	39.639	95.486	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	34	S	F1050
S9-1.003	225	S9-4	41.139	39.639	S9-5	38.986	37.486	95.487	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S9-1.004	225	S9-5	38.986	37.486	S9-6	37.713	36.213	60.739	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S9-1.005	225	S9-6	37.713	36.213	S9-8	37.394	35.894	9.155	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S9-2.000	150	S9-7	36.583	35.158	S9-8	37.394	34.759	39.885	CD			1.28	2.49	1.88	1.43	2.64	2.03	2-4	100	S	F1050
S9-1.006	375	S9-8	37.394	34.534	S9-10	37.369	34.512	7	CD			2.49	2.48	2.48	2.86	2.86	2.86	2-4	318	S	C1050
S9-3.000	150	S9-9	36.583	35.158	S9-10	37.369	34.758	39.971	CD			1.28	2.46	1.87	1.43	2.61	2.02	2-4	100	S	F1050
S9-1.007	375	S9-10	37.369	34.512	S9-11	37.336	34.483	9.342	CD			2.48	2.48	2.48	2.86	2.85	2.86	2-4	322	S	C1050
S9-1.008	375	S9-11	37.336	34.483	S9-12	36.86	34.41	23.71	CD			2.48	2.08	2.28	2.85	2.45	2.65	2-4	325	S	C1050
S9-1.009	375	S9-12	36.86	34.41	S9-30	35.463	33.812	49.905	CD			2.08	1.28	1.68	2.45	1.65	2.05	2-4	83	S	C1050
S9-4.000	150	S9-13	48.451	47.026	S9-14	46.434	45.009	98.475	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	49	S	F1050
S9-4.001	225	S9-14	46.434	44.934	S9-15	44.551	43.051	89.509	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S9-4.002	225	S9-15	44.551	43.051	S9-16	41.752	40.252	89.506	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	32	S	F1050
S9-4.003	300	S9-16	41.752	40.177	S9-17	39.523	37.948	89.504	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	40	S	F1050
S9-4.004	300	S9-17	39.523	37.948	S9-18	37.811	36.236	82.799	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	48	S	F1050
S9-4.005	375	S9-18	37.811	36.161	S9-22	37.788	36.125	11.611	CD			1.28	1.29	1.28	1.65	1.66	1.66	0-2	323	S	F1050
S9-5.000	100	S9-19	42.063	40.688	S9-20	39.244	37.869	69.947	FD			1.28	1.28	1.28	1.38	1.38	1.38	0-2	25	K	F1050
S9-5.001	150	S9-20	39.244	37.819	S9-21	38.045	36.62	39.954	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	33	K	F1050
S9-5.002	150	S9-21	38.045	36.62	S9-22	37.788	36.363	19.987	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	78	S	F1050
S9-4.006	375	S9-22	37.788	36.125	S9-26	37.763	36.103	7	CD			1.29	1.29	1.29	1.66	1.66	1.66	0-2	318	S	F1050
S9-6.000	100	S9-23	42	40.625	S9-24	39.382	38.007	67.443	FD			1.28	1.28	1.28	1.38	1.38	1.38	0-2	26	K	F1050
S9-6.001	150	S9-24	39.382	37.957	S9-25	38.08	36.655	43.17	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	33	K	F1050
S9-6.002	150	S9-25	38.08	36.655	S9-26	37.763	36.338	19.097	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	60	S	F1050
S9-4.007	375	S9-26	37.763	35.799	S9-27	37.412	35.762	11.925	CD			1.59	1.28	1.43	1.96	1.65	1.81	0-2	322	S	C1050
S9-4.008	375	S9-27	37.412	35.762	S9-28	36.866	35.216	24.591	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	45	S	F1050
S9-4.009	375	S9-28	36.866	35.216	S9-29	35.986	34.336	39.853	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	45	S	F1050
S9-4.010	450	S9-29	35.986	33.87	S9-30	35.463	33.738	18.6	CD			1.67	1.28	1.47	2.12	1.73	1.92	0-2	141	S	C1050
S9-1.010	450	S9-30	35.463	31.357	S9-31	32.913	31.188	69.312	CD			3.66	1.28	2.47	4.11	1.73	2.92	2-4	410	S	D1050
S9-1.011	450	S9-31	32.913	28.181	S9-34	29.747	28.022	65.368	CD			4.28	1.28	2.78	4.73	1.73	3.23	2-4	411	S	D1050
S9-7.000	225	S9-32	25.2	24	S9-33	27.059	23.683	44.636	CD			0.97	3.15	2.06	1.20	3.38	2.29	2-4	141	S	F1050
S9-7.001	225	S9-33	27.059	23.683	S9-34	29.747	23.372	53.304	CD			3.15	6.15	4.65	3.38	6.38	4.88	4-6	171	S	D1050
S9-1.012	825	S9-34	29.747	22.772	S9-35	30.2	22.741	15.264	CD			6.15	6.63	6.39	6.98	7.46	7.22	6-8	492	S	E1500
S9-1.013	825	S9-35	30.2	22.741	S9-36	26.75	22.718	11.605	CD			6.63	3.21	4.92	7.46	4.03	5.75	4-6	505	S	E1500
S9-1.014	825	S9-36	26.75	22.718	S9-37	26.75	22.518	8.596	CD			3.21	3.41	3.31	4.03	4.23	4.13	4-6	43	S	D1500
S9-1.017	225	S9-39	26.5	22.243	S9-100	24.179	22.038	38.072	CD			4.03	1.92	2.97	4.26	2.14	3.20	2-4	186	S	D1050

2. Gully Schedule												
Pipe Ref.	Location ⁽²¹⁾	Chainage										
S9-1.004	ML	MLN 4+500										
S9-1.005	SR	MLN 4+450										
S9-2.000	SR	MLN 4+450										
S9-3.000	SR	MLN 4+450										
S9-1.007	SR	MLN 4+450										
S9-1.008	ML	MLN 4+450										
S9-4.004	ML	MLN 4+500										
S9-4.005	SR	MLN 4+450										
S9-5.002	SR	MLN 4+450										
S9-6.002	SR	MLN 4+450										
S9-4.007	SR	MLN 4+450										
S9-4.008	ML	MLN 4+450										

3. Grassed & Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 4+370	MLN 4+420	49.905																
GSWC	MLN 4+380	MLN 4+420	39.853																
SWC	MLN 4+125	MLN 4+370	232.62																
SWC	MLN 4+550	MLN 4+920	366.994																
SWC	MLN 4+525	MLN 4+900	376.924																

4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S9-1.014	Petrol Interceptor Class 1 Bypass Separator NSB 040																
			Spillage Containment Area 25m3																
		S9-1.015	Wetland - Vt 178.8m3																
		S9-1.016	Attenuation Pond - Volume of Storage 796m3																
		MH S9/39	Orifice - Qbar 6.3l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S10 (Doc Ref. GCOB-4.03.03.03-012)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S10-1.000	225	S10-1	60.835	59.335	S10-2	60.206	58.706	67.78	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	108	S	F1050
S10-1.001	225	S10-2	60.206	58.706	S10-3	59.993	58.456	42.325	CD			1.28	1.31	1.29	1.50	1.54	1.52	0-2	169	S	F1050
S10-1.002	225	S10-3	59.993	58.456	S10-4	59.532	58.032	16.638	CD			1.31	1.28	1.29	1.54	1.50	1.52	0-2	39	S	F1050
S10-1.003	300	S10-4	59.532	57.957	S10-5	58.688	57.113	91.104	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	108	S	F1050
S10-1.004	300	S10-5	58.688	57.113	S10-6	58.269	56.694	48.565	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	116	S	F1050
S10-1.005	300	S10-6	58.269	56.694	S10-7	57.441	55.866	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	109	S	F1050
S10-1.006	300	S10-7	57.441	55.866	S10-8	55.934	53.395	90	CD			1.28	2.24	1.76	1.58	2.54	2.06	2-4	36	S	F1050
S10-1.007	300	S10-8	55.934	53.395	S10-9	54.028	52.453	90	CD			2.24	1.28	1.76	2.54	1.58	2.06	2-4	96	S	C1050
S10-1.008	300	S10-9	54.028	52.453	S10-10	52.233	50.658	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	50	S	F1050
S10-1.009	300	S10-10	52.233	50.658	S10-11	50.432	48.857	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	50	S	F1050
S10-1.010	300	S10-11	50.432	48.857	S10-23	48.64	47.065	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	50	S	F1050
S10-2.000	225	S10-12	60.321	58.821	S10-13	59.775	58.275	55.275	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	101	S	F1050
S10-2.001	225	S10-13	59.775	58.275	S10-14	59.608	58.108	13.427	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	80	S	F1050
S10-2.002	225	S10-14	59.608	58.108	S10-15	59.063	57.563	62.392	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	114	S	F1050
S10-2.003	225	S10-15	59.063	57.563	S10-16	58.336	56.836	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	124	S	F1050
S10-2.004	300	S10-16	58.336	56.761	S10-17	57.536	55.961	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	112	S	F1050
S10-2.005	300	S10-17	57.536	55.961	S10-18	56.17	53.245	90	CD			1.28	2.63	1.95	1.58	2.93	2.25	2-4	33	S	F1050
S10-2.006	300	S10-18	56.17	53.245	S10-19	54.382	52.807	90	CD			2.63	1.28	1.95	2.93	1.58	2.25	2-4	205	S	C1050
S10-2.007	300	S10-19	54.382	52.807	S10-20	52.44	50.865	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	46	S	F1050
S10-2.008	300	S10-20	52.44	50.865	S10-21	50.79	49.215	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	55	S	F1050
S10-2.009	300	S10-21	50.79	49.215	S10-22	48.84	47.265	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	46	S	F1050
S10-2.010	450	S10-22	48.84	47.115	S10-23	48.64	46.915	18.278	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	91	S	F1050
S10-1.011	450	S10-23	48.64	46.915	S10-24	48.5	46.715	19.709	CD			1.28	1.34	1.31	1.73	1.79	1.76	0-2	99	S	F1050
S10-1.014	225	S10-26	47.15	43.181	S10-27	43.5	42.616	10.873	CD			3.74	0.66	2.20	3.97	0.88	2.43	2-4	19	S	D1050
S10-1.015	225	S10-27	43.5	42.616	S10-100	43	42.555	9.423	CD			0.66	0.22	0.44	0.88	0.45	0.66	0-2	154	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																	
S10-1.000	SR	MLN 5+650																	
S10-1.001	SR	MLN 5+650																	
S10-1.002	SR	MLN 5+650																	
S10-2.000	SR	MLN 5+650																	
S10-2.001	SR	MLN 5+650																	
S10-2.002	ML	MLN 5+600																	

3. Grassed & Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
GSWC	MLN 5+025	MLN 5+210	180																	
SWC	MLN 4+940	MLN 5+025	90																	
SWC	MLN 4+930	MLN 5+600	679.669																	
SWC	MLN 5+210	MLN 5+565	360																	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																		
		S10-1.011	Petrol Interceptor Class 1 Bypass Separator NSB 040																	
		S10-1.012	Spillage Containment Area 25m3																	
		S10-1.013	Wetland - Vt 182.85m3																	
		MH S10/26	Attenuation Pond - Volume of Storage 873m3 Hydrobrake - Qbar 7.9l/s																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S11 (Doc Ref. GCOB-4.03.03.03-013)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S11-1.000	225	S11-1	59.882	58.403	S11-2	59.736	58.15	43.09	CD			1.25	1.36	1.31	1.48	1.59	1.53	0-2	170	S	F1050
S11-1.001	225	S11-2	59.736	58.15	S11-3	59.586	58.086	10.587	CD			1.36	1.28	1.32	1.59	1.50	1.54	0-2	165	S	C1050
S11-1.002	225	S11-3	59.586	58.086	S11-4	58.69	57.167	80.069	SD			1.28	1.30	1.29	1.50	1.52	1.51	0-2	87	N/A	F1050
S11-1.003	300	S11-4	58.69	57.092	S11-5	58.825	57.044	11.8	CD			1.30	1.48	1.39	1.60	1.78	1.69	0-2	246	S	F1050
S11-1.004	300	S11-5	58.825	57.044	S11-6	57.152	55.577	89.932	CD			1.48	1.28	1.38	1.78	1.58	1.68	0-2	61	S	C1050
S11-1.005	300	S11-6	57.152	55.577	S11-13	57.036	55.427	36.966	CD			1.28	1.31	1.29	1.58	1.61	1.59	0-2	246	S	F1050
S11-2.000	225	S11-7	62.771	61.271	S11-8	62.236	60.736	69.557	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	130	S	F1050
S11-2.001	225	S11-8	62.236	60.736	S11-9	61.125	59.625	79.45	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	72	S	F1050
S11-2.002	225	S11-9	61.125	59.625	S11-10	59.716	58.216	69.508	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S11-2.003	225	S11-10	59.716	58.216	S11-11	57.922	56.422	79.438	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S11-2.004	300	S11-11	57.922	56.347	S11-12	57.347	55.772	49.648	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	86	S	F1050
S11-2.005	300	S11-12	57.347	55.772	S11-13	57.036	55.461	52.401	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	168	S	F1050
S11-1.006	675	S11-13	57.036	55.052	S11-24	57.015	55.001	25.45	CD			1.31	1.34	1.32	1.98	2.01	2.00	0-2	499	S	C1350
S11-3.000	225	S11-14	59.514	58.011	S11-15	59.195	57.661	59.444	CD			1.28	1.31	1.29	1.50	1.53	1.52	0-2	170	S	F1050
S11-3.001	225	S11-15	59.195	57.661	S11-16	58.276	56.776	79.431	FD			1.31	1.28	1.29	1.53	1.50	1.52	0-2	90	K	F1050
S11-3.002	225	S11-16	58.276	56.776	S11-17	57.281	55.781	90.038	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	90	S	F1050
S11-3.003	300	S11-17	57.281	55.706	S11-24	57.015	55.441	37.506	CD			1.28	1.27	1.27	1.58	1.57	1.57	0-2	142	S	F1050
S11-4.000	225	S11-18	62.81	61.31	S11-19	62.221	60.721	80.487	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	137	S	F1050
S11-4.001	225	S11-19	62.221	60.721	S11-20	61.104	59.604	80.612	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	72	S	F1050
S11-4.002	225	S11-20	61.104	59.604	S11-21	59.695	58.195	70.526	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	50	S	F1050
S11-4.003	225	S11-21	59.695	58.195	S11-22	57.901	56.401	80.601	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S11-4.004	300	S11-22	57.901	56.326	S11-23	57.247	55.672	50.376	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	77	S	F1050
S11-4.005	300	S11-23	57.247	55.672	S11-24	57.015	55.44	53.17	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	229	S	F1050
S11-1.007	675	S11-24	57.015	55.001	S11-25	57	54.921	6.765	CD			1.34	1.40	1.37	2.01	2.08	2.05	2-4	85	S	C1350
S11-1.008	675	S11-25	57	54.921	S11-26	57.5	54.721	18.59	CD			1.40	2.10	1.75	2.08	2.78	2.43	2-4	93	S	C1350
S11-1.011	225	S11-28	55.25	53.95	S11-29	54.539	53.108	35.504	CD			1.08	1.21	1.14	1.30	1.43	1.37	0-2	42	S	F1050

2. Gully Schedule																		
Pipe Ref.	Location ⁽²¹⁾		Chainage															
	⁽²²⁾																	
S11-1.000	ML	MLN 5+675																
S11-3.000	ML	MLN 5+675																

3. Grassed & Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	⁽²⁴⁾ L (m)	⁽¹⁾ u/s IL (mOD)	⁽¹⁾ d/s IL (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 5+790	MLN 5+970	179.299																
GSWC	MLN 5+790	MLN 5+970	180.714																
SWC	MLN 5+975	MLN 6+325	347.601																
SWC	MLN 5+975	MLN 6+325	362.602																

4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S11-1.008	Petrol Interceptor Class 1 Bypass Separator NSB 050																
			Spillage Containment Area 25m3																
		S11-1.009	Wetland - Vt 235.8m3																
		S11-1.010	Attenuation Pond - Volume of Storage 1127m3																
		MH S11/28	Orifice - Qbar 7.3l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S12 (Doc Ref. GCOB-4.03.03.03-014)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S12-1.000	225	S12-1	62.831	61.331	S12-2	62.787	60.771	95	CD			1.28	1.79	1.53	1.50	2.02	1.76	0-2	170	S	F1050
S12-1.001	225	S12-2	62.787	60.771	S12-3	61.953	60.211	95	CD			1.79	1.52	1.65	2.02	1.74	1.88	0-2	170	S	C1050
S12-1.002	225	S12-3	61.953	60.211	S12-4	60.914	59.414	90	FD			1.52	1.28	1.40	1.74	1.50	1.62	0-2	113	K	C1050
S12-1.003	225	S12-4	60.914	59.414	S12-5	59.777	58.277	95	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	84	S	F1050
S12-1.004	300	S12-5	59.777	58.202	S12-6	59.206	57.631	60.766	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	106	S	F1050
S12-1.005	300	S12-6	59.206	57.631	S12-21	58.83	57.255	53.38	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	142	S	F1050
S12-2.000	150	S12-7	68.002	66.577	S12-8	67.47	66.045	40.247	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	76	S	F1050
S12-2.001	225	S12-8	67.47	65.97	S12-10	66.813	65.313	29.838	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S12-3.000	150	S12-9	67.765	66.34	S12-10	66.813	65.388	66.076	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	69	S	F1050
S12-2.002	225	S12-10	66.813	65.313	S12-17	64.837	63.337	95.036	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	48	S	F1050
S12-4.000	225	S12-11	67.74	66.24	S12-12	67.45	65.52	60.269	CD			1.28	1.71	1.49	1.50	1.93	1.72	0-2	84	S	F1050
S12-4.001	225	S12-12	67.45	65.52	S12-15	66.3	64.8	60.269	CD			1.71	1.28	1.49	1.93	1.50	1.72	0-2	84	S	C1050
S12-5.000	150	S12-13	68.137	66.712	S12-14	66.607	65.182	99.405	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	65	S	F1050
S12-5.001	225	S12-14	66.607	65.107	S12-15	66.3	64.8	11.577	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	38	S	F1050
S12-4.002	225	S12-15	66.3	64.8	S12-16	65.1	63.6	53.43	CD			1.28	1.27	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S12-4.003	525	S12-16	65.1	63.3	S12-17	64.837	63.037	32.42	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	123	S	C1200
S12-2.003	525	S12-17	64.837	60.903	S12-18	62.544	60.744	78.643	CD			3.41	1.28	2.34	3.93	1.80	2.87	2-4	495	S	D1200
S12-2.004	525	S12-18	62.544	58.846	S12-19	60.459	58.659	93.318	CD			3.17	1.28	2.22	3.70	1.80	2.75	2-4	499	S	D1200
S12-2.005	525	S12-19	60.459	57.542	S12-20	59.248	57.448	46.624	CD			2.39	1.28	1.83	2.92	1.80	2.36	2-4	496	S	C1200
S12-2.006	525	S12-20	59.248	57.448	S12-21	58.83	57.03	64.168	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	154	S	C1200
S12-1.006	750	S12-21	58.83	56.805	S12-32	58.9	56.752	26.45	CD			1.28	1.40	1.34	2.03	2.15	2.09	2-4	499	S	C1350
S12-6.000	225	S12-22	62.859	61.359	S12-23	62.757	60.859	85	CD			1.28	1.67	1.47	1.50	1.90	1.70	0-2	170	S	F1050
S12-6.001	225	S12-23	62.757	60.859	S12-24	61.961	60.299	95	CD			1.67	1.44	1.56	1.90	1.66	1.78	0-2	170	S	C1050
S12-6.002	225	S12-24	61.961	60.299	S12-25	60.839	59.339	95	CD			1.44	1.28	1.36	1.66	1.50	1.58	0-2	99	S	C1050
S12-6.003	300	S12-25	60.839	59.264	S12-26	59.806	58.231	95	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	92	S	F1050
S12-6.004	300	S12-26	59.806	58.231	S12-27	59.101	57.526	68.278	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	97	S	F1050
S12-6.005	300	S12-27	59.101	57.526	S12-32	58.9	57.325	32.207	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	160	S	F1050
S12-7.000	150	S12-28	64.678	63.253	S12-29	62.756	61.331	65.954	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	34	S	F1050
S12-7.001	300	S12-29	62.756	61.181	S12-30	60.181	58.606	95	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	37	S	F1050
S12-7.002	300	S12-30	60.181	58.606	S12-31	59.304	57.729	45	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	51	S	F1050
S12-7.003	375	S12-31	59.304	57.654	S12-32	58.9	57.25	76.024	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	188	S	F1050
S12-1.007	750	S12-32	58.9	54.467	S12-33	56.1	54.45	12.881	CD			3.68	0.90	2.29	4.43	1.65	3.04	2-4	758	S	D1500
S12-1.008	750	S12-33	56.1	54.45	S12-34	56.1	54.2	14.867	CD			0.90	1.15	1.03	1.65	1.90	1.78	0-2	59	S	B
S12-1.011	225	S12-36	55	48.53	S12-100	48.35	48.12	58.099	CD			6.25	0.01	3.13	6.47	0.23	3.35	2-4	142	S	E1500

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾	Chainage
	⁽²²⁾	

3. Grassed & Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 6+610	MLN 6+825	209.146																
GSWC	MLN 6+710	MLN 6+810	100.485																
GSWC	MLN 6+935	MLN 7+025	93.318																
GSWC	MLN 6+935	MLN 7+025	95																
SWC	MLN 6+340	MLN 6+525	190																
SWC	MLN 6+350	MLN 6+720	370																
SWC	MLN 6+825	MLN 6+925	110.792																
SWC	MLN 6+810	MLN 6+925	121.024																
SWC	MLN 7+025	MLN 7+260	239.755																
SWC	MLN 7+025	MLN 7+100	65.954																
SWC	MLN 7+110	MLN 7+280	173.968																
SWC	MLN 7+225	MLN 7+265	40.247																
SWC	MLN 7+175	MLN 7+275	99.405																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S12-1.008	Petrol Interceptor Class 1 Bypass Separator NSB 075
			Spillage Containment Area 25m3
		S12-1.009	Wetland - Vt 366.9m3
		S12-1.010	Attenuation Pond - Volume of Storage 1697m3
		MH S12/36	Orifice - Qbar 11.3l/s

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S13 (Doc Ref. GCOB-4.03.03.03-015)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S13-1.000	150	S13-1	68.9	67.475	S13-2	68.731	66.937	54.758	CD			1.28	1.64	1.46	1.43	1.79	1.61	0-2	102	S	F1050
S13-1.001	225	S13-2	68.731	66.862	S13-5	68.33	66.538	55.534	CD			1.64	1.57	1.61	1.87	1.79	1.83	0-2	171	S	C1050
S13-2.000	225	S13-3	68.904	67.404	S13-4	68.439	66.822	99.782	CD			1.28	1.39	1.33	1.50	1.62	1.56	0-2	171	S	F1050
S13-2.001	300	S13-4	68.439	66.747	S13-5	68.33	66.637	27.205	CD			1.39	1.39	1.39	1.69	1.69	1.69	0-2	247	S	C1050
S13-1.002	450	S13-5	68.33	66.313	S13-6	67.986	66.261	14.926	CD			1.57	1.28	1.42	2.02	1.73	1.87	0-2	287	S	C1050
S13-1.003	450	S13-6	67.986	66.261	S13-7	68.183	66.05	86.635	CD			1.28	1.68	1.48	1.73	2.13	1.93	0-2	411	S	F1050
S13-1.004	450	S13-7	68.183	66.05	S13-8	66.622	64.897	59.145	CD			1.68	1.27	1.48	2.13	1.72	1.93	0-2	51	S	C1050
S13-1.005	450	S13-8	66.622	62.59	S13-16	64.2	62.475	47.293	CD			3.58	1.28	2.43	4.03	1.73	2.88	2-4	411	S	D1050
S13-3.000	150	S13-9	68.906	67.481	S13-11	68.739	66.887	60.544	CD			1.28	1.70	1.49	1.43	1.85	1.64	0-2	102	S	F1050
S13-4.000	150	S13-10	68.392	66.967	S13-11	68.739	66.486	48.952	CD			1.28	2.10	1.69	1.43	2.25	1.84	0-2	102	S	F1050
S13-3.001	300	S13-11	68.739	66.336	S13-14	68.745	66.234	25.11	CD			2.10	2.21	2.16	2.40	2.51	2.46	2-4	246	S	C1050
S13-5.000	150	S13-12	68.9	67.475	S13-14	68.745	66.886	59.964	CD			1.28	1.71	1.49	1.43	1.86	1.64	0-2	102	S	F1050
S13-6.000	150	S13-13	68.408	66.983	S13-14	68.745	66.495	49.701	CD			1.28	2.10	1.69	1.43	2.25	1.84	0-2	102	S	F1050
S13-3.002	300	S13-14	68.745	64.155	S13-15	65.7	64.125	7.409	CD			4.29	1.28	2.78	4.59	1.58	3.08	2-4	247	S	D1050
S13-3.003	300	S13-15	65.7	62.738	S13-16	64.2	62.625	27.828	CD			2.66	1.28	1.97	2.96	1.58	2.27	2-4	246	S	C1050
S13-1.006	450	S13-16	64.2	60.841	S13-17	62.25	60.825	6.259	CD			2.91	0.97	1.94	3.36	1.43	2.39	2-4	391	S	C1050
S13-1.007	450	S13-17	62.25	60.825	S13-18	62.25	60.675	10.43	CD			0.97	1.13	1.05	1.43	1.58	1.50	0-2	70	S	F1050
S13-1.009	450	S13-19	63	60.625	S13-20	61.6	60.593	13.141	CD			1.93	0.56	1.24	2.38	1.01	1.69	0-2	411	S	C1050
S13-1.011	225	S13-21	61.6	59.993	S13-100	60.5	59.851	15.935	CD			1.38	0.42	0.90	1.61	0.65	1.13	0-2	112	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 7+300	MLN 7+500	193.073																
SWC	MLN 7+300	MLN 7+410	110.292																
SWC	MLN 7+300	MLN 7+410	99.782																
SWC	MLN 7+400	MLN 7+410	109.665																
SWC	MLN 7+400	MLN 7+410	109.496																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		Petrol Interceptor Class 1 Bypass Separator NSB 025
		Spillage Containment Area 25m3
	S13-1.008	Wetland - Vt 94.8m3
	S13-1.010	Attenuation Pond - Volume of Storage 378m3
	MH S13/21	Orifice - Design discharge 5l/s

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S14A (Doc Ref. GCOB-4.03.03.3-016)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S14A-1.000	225	S14A-1	68.312	66.812	S14A-2	67.915	66.415	34.746	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	88	K	F1050
S14A-1.001	225	S14A-2	67.915	66.415	S14A-3	66.547	65.047	90.736	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	66	S	F1050
S14A-1.002	225	S14A-3	66.547	65.047	S14A-4	64.396	62.895	89.264	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	41	S	F1050
S14A-1.003	300	S14A-4	64.396	62.82	S14A-5	61.551	59.976	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	32	S	F1050
S14A-1.004	375	S14A-5	61.551	56.801	S14A-6	58.081	56.431	90	CD			4.38	1.28	2.83	4.75	1.65	3.20	2-4	243	S	D1050
S14A-1.005	375	S14A-6	58.081	53.199	S14A-7	54.481	52.831	89.717	CD			4.51	1.28	2.89	4.88	1.65	3.27	2-4	244	S	D1050
S14A-1.006	375	S14A-7	54.481	50.207	S14A-8	51.643	49.992	70.013	CD			3.90	1.28	2.59	4.27	1.65	2.96	2-4	326	S	D1050
S14A-1.007	600	S14A-8	51.643	49.261	S14A-14	51.107	49.232	11.728	CD			1.78	1.28	1.53	2.38	1.88	2.13	2-4	404	S	C1200
S14A-2.000	225	S14A-9	59.474	57.974	S14A-10	58.774	57.274	70.139	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	100	S	F1050
S14A-2.001	300	S14A-10	58.774	57.199	S14A-11	57.54	55.965	90.172	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	73	S	F1050
S14A-2.002	300	S14A-11	57.54	55.965	S14A-12	55.5	53.925	89.947	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	44	S	F1050
S14A-2.003	300	S14A-12	55.5	53.925	S14A-13	57.97	51.073	89.706	CD			1.28	6.60	3.94	1.58	6.90	4.24	4-6	31	S	F1050
S14A-2.004	450	S14A-13	57.97	49.504	S14A-14	51.107	49.382	39.545	CD			8.02	1.28	4.65	8.47	1.73	5.10	4-6	324	S	E1500
S14A-1.008	600	S14A-14	51.107	47.039	S14A-15	48.794	46.919	59.16	CD			3.47	1.28	2.37	4.07	1.88	2.97	2-4	493	S	D1200
S14A-1.009	600	S14A-15	48.794	43.308	S14A-32	44.994	43.118	94.256	CD			4.89	1.28	3.08	5.49	1.88	3.68	2-4	496	S	D1200
S14A-3.000	225	S14A-16	68.319	66.819	S14A-17	67.915	66.415	36.185	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	90	K	F1050
S14A-3.001	225	S14A-17	67.915	66.415	S14A-18	66.415	64.915	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	60	S	F1050
S14A-3.002	225	S14A-18	66.415	64.915	S14A-19	64.396	62.896	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S14A-3.003	300	S14A-19	64.396	62.821	S14A-20	61.551	59.976	90	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	32	S	F1050
S14A-3.004	375	S14A-20	61.551	56.801	S14A-21	58.081	56.431	90	CD			4.38	1.28	2.83	4.75	1.65	3.20	2-4	243	S	D1050
S14A-3.005	375	S14A-21	58.081	53.111	S14A-22	54.481	52.831	90.278	CD			4.60	1.28	2.94	4.97	1.65	3.31	2-4	322	S	D1050
S14A-3.006	375	S14A-22	54.481	51.248	S14A-23	52.774	51.123	40.83	CD			2.86	1.28	2.07	3.23	1.65	2.44	2-4	327	S	C1050
S14A-3.007	600	S14A-23	52.774	50.384	S14A-29	52.225	50.35	13.721	CD			1.79	1.28	1.53	2.39	1.88	2.13	2-4	404	S	C1200
S14A-4.000	225	S14A-24	60.945	59.445	S14A-25	60.617	59.09	60.451	CD			1.28	1.30	1.29	1.50	1.53	1.51	0-2	170	S	F1050
S14A-4.001	225	S14A-25	60.617	59.09	S14A-26	59.635	58.135	60.186	CD			1.30	1.28	1.29	1.53	1.50	1.51	0-2	63	S	F1050
S14A-4.002	300	S14A-26	59.635	58.06	S14A-27	57.307	55.732	80	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	34	S	F1050
S14A-4.003	375	S14A-27	57.307	52.368	S14A-28	53.743	52.093	90	CD			4.56	1.28	2.92	4.94	1.65	3.29	2-4	327	S	D1050
S14A-4.004	375	S14A-28	53.743	50.69	S14A-29	52.225	50.575	37.386	CD			2.68	1.28	1.98	3.05	1.65	2.35	2-4	325	S	C1050
S14A-3.008	525	S14A-29	52.225	47.142	S14A-30	48.759	46.959	90.356	CD			4.56	1.28	2.92	5.08	1.80	3.44	2-4	494	S	D1200
S14A-3.009	525	S14A-30	48.759	43.376	S14A-31	44.981	43.181	95.825	CD			4.86	1.28	3.07	5.38	1.80	3.59	2-4	491	S	D1200
S14A-3.010	1050	S14A-31	44.981	42.656	S14A-32	44.994	42.591	32.1	CD			1.28	1.35	1.31	2.33	2.40	2.36	2-4	494	S	C1500
S14A-1.010	1050	S14A-32	44.994	42.591	S14A-33	46.648	42.571	9.893	CD			1.35	3.03	2.19	2.40	4.08	3.24	2-4	495	S	C1500
S14A-1.011	1050	S14A-33	46.648	42.571	S14A-34	46	42.321	32.632	CD			3.03	2.63	2.83	4.08	3.68	3.88	2-4	131	S	D1500
S14A-1.014	1300	S14A-36	36.5	30.244	S14A-37	31.75	30.143	32.978	CD			4.96	0.31	2.63	6.26	1.61	3.93	2-4	327	S	D1500
S14A-1.015	600	S14A-37	31.75	29.042	S14A-100	28.67	27.32	22.622	CD			2.11	0.75	1.43	2.71	1.35	2.03	2-4	13	S	C1200

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	Location ⁽²²⁾		Chainage																
3. Grassed and Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 7+535	MLN 7+570	34.746																
SWC	MLN 7+535	MLN 7+570	36.185																
GSWC	MLN 7+570	MLN 7+660	90.736																
GSWC	MLN 7+570	MLN 7+660	90																
SWC	MLN 7+660	MLN 8+100	428.994																
SWC	MLN 7+660	MLN 8+060	401.108																
SWC	MLN 7+720	MLN 8+250	532.925																
SWC	MLN 7+750	MLN 8+250	514.204																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S14A-1.011	Petrol Interceptor Class 1 Bypass Separator NSB 125																
			Spillage Containment Area 25m3																
		S14A-1.012	Wetland - Vt 329.85m3																
		S14A-1.013	Attenuation Pond - Volume of Storage 1975m3																
		MH S14A/36	Hydrobrake - Qbar 20.3l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S14B (Doc Ref. GCOB-4.03.03.03-017)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S14B-1.000	225	S14B-1	44.800	43.300	S14B-2	41.137	39.637	89.716	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	C1050
S14B-1.001	225	S14B-2	41.137	39.637	S14B-3	37.537	36.037	90.000	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	C1050
S14B-1.002	300	S14B-3	37.537	33.168	S14B-4	34.393	32.818	85.150	CD			4.07	1.28	2.67	4.37	1.58	2.97	2-4	243	S	D1050
S14B-1.003	300	S14B-4	34.393	32.818	S14B-9	33.950	32.375	26.366	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	60	S	C1050
S14B-2.000	225	S14B-5	44.750	43.250	S14B-6	41.137	39.637	90.300	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	C1050
S14B-2.001	225	S14B-6	41.137	39.637	S14B-7	37.537	36.037	90.000	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	C1050
S14B-2.002	300	S14B-7	37.537	33.807	S14B-8	35.137	33.562	59.973	CD			3.43	1.28	2.35	3.73	1.58	2.65	2-4	245	S	D1050
S14B-2.003	375	S14B-8	35.137	32.391	S14B-9	33.950	32.300	29.530	CD			2.37	1.28	1.82	2.75	1.65	2.20	2-4	325	S	C1050
S14B-1.004	450	S14B-9	33.950	23.303	S14B-10	25.000	23.280	9.076	CD			10.20	1.27	5.73	10.65	1.72	6.18	6-8	395	S	E1500
S14B-1.005	450	S14B-10	25.000	23.280	S14B-11	25.000	23.179	40.345	CD			1.27	1.37	1.32	1.72	1.82	1.77	0-2	399	S	C1050
S14B-1.006	450	S14B-11	25.000	23.179	S14B-12	24.500	23.108	28.864	CD			1.37	0.94	1.16	1.82	1.39	1.61	0-2	407	S	C1050
S14B-1.007	450	S14B-12	24.500	23.108	S14B-13	25.000	22.958	16.071	CD			0.94	1.59	1.27	1.39	2.04	1.72	0-2	107	S	F1050
S14B-1.010	225	S14B-15	25.000	22.058	S14B-16	26.000	21.905	25.760	CD			2.72	3.87	3.29	2.94	4.10	3.52	2-4	168	S	C1050
S14B-1.011	225	S14B-16	26.000	21.905	S14B-17	25.000	21.630	47.000	CD			3.87	3.15	3.51	4.10	3.37	3.73	2-4	171	S	D1050
S14B-1.012	225	S14B-17	25.000	21.630	S14B-18	23.250	21.429	34.280	CD			3.15	1.60	2.37	3.37	1.82	2.60	2-4	171	S	D1050
S14B-1.013	225	S14B-18	23.250	21.429	S14B-19	24.000	21.238	32.478	CD			1.60	2.54	2.07	1.82	2.76	2.29	2-4	170	S	C1050
S14B-1.014	225	S14B-19	24.000	21.238	S14B-20	25.000	21.124	19.306	CD			2.54	3.65	3.09	2.76	3.88	3.32	2-4	169	S	C1050
S14B-1.015	225	S14B-20	25.000	21.124	S14B-21	26.250	20.907	36.897	CD			3.65	5.12	4.38	3.88	5.34	4.61	4-6	170	S	D1050
S14B-1.016	225	S14B-21	26.250	20.907	S14B-22	25.250	20.791	19.751	CD			5.12	4.23	4.68	5.34	4.46	4.90	4-6	170	S	D1050
S14B-1.017	225	S14B-22	25.250	20.791	S14B-23	24.100	20.650	23.979	CD			4.23	3.23	3.73	4.46	3.45	3.95	2-4	170	S	D1050
S14B-1.018	225	S14B-23	24.100	20.650	S14B-100	21.000	20.101	36.226	CD			3.23	0.67	1.95	3.45	0.90	2.17	2-4	66	S	D1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	₍₂₂₎																		
3. Grassed & Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 8+260	MLN 8+350	89.716																
GSWC	MLN 8+260	MLN 8+350	90.3																
SWC	MLN 8+350	MLN 8+525	175.15																
SWC	MLN 8+350	MLN 8+525	179.503																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S14B-1.007	Petrol Interceptor Class 1 Bypass Separator NSB 025 Spillage Containment Area 25m3																
		S14B-1.008	Wetland - Vt 97.8m3																
		S14B-1.009	Attenuation Pond - Volume of Storage 613m3																
		MH S14B/15	Hydrobrake - Design discharge 5l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S15 (Doc Ref. GCOB-4.03.03.03-018)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S15-1.000	225	S15-1	68.292	66.792	S15-2	68.24	66.601	32.159	CD			1.28	1.41	1.34	1.50	1.64	1.57	0-2	168	S	F1050
S15-1.001	225	S15-2	68.24	66.601	S15-3	66.38	64.88	87.019	CD			1.41	1.28	1.34	1.64	1.50	1.57	0-2	51	S	C1050
S15-1.002	225	S15-3	66.38	64.88	S15-4	61.841	60.341	90.199	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	20	S	F1050
S15-1.003	300	S15-4	61.841	59.441	S15-5	56.441	54.941	90	CD			2.10	1.20	1.65	2.40	1.50	1.95	0-2	20	S	C1050
S15-1.004	375	S15-5	56.441	53.878	S15-6	51.028	49.378	90	CD			2.19	1.28	1.73	2.56	1.65	2.11	2-4	20	S	C1050
S15-1.005	375	S15-6	51.028	48.501	S15-7	45.651	44.001	90	CD			2.15	1.28	1.71	2.53	1.65	2.09	2-4	20	S	C1050
S15-1.006	450	S15-7	45.651	43.926	S15-8	42.133	40.408	90	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	26	S	F1050
S15-1.007	450	S15-8	42.133	40.408	S15-9	41.428	39.703	42.315	CD			1.28	1.27	1.28	1.73	1.72	1.73	0-2	60	S	F1050
S15-1.008	600	S15-9	41.428	39.553	S15-10	41.2	39.325	13.51	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	59	S	C1050
S15-1.009	600	S15-10	41.2	39.325	S15-11	39.875	38	57.362	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	43	S	C1050
S15-1.010	600	S15-11	39.875	37.378	S15-12	36.332	34.457	58.428	CD			1.90	1.28	1.59	2.50	1.88	2.19	2-4	20	S	C1050
S15-1.011	600	S15-12	36.332	32.694	S15-13	32.839	30.964	34.587	CD			3.04	1.28	2.16	3.64	1.88	2.76	2-4	20	S	D1050
S15-1.012	600	S15-13	32.839	29.201	S15-14	29.346	27.471	34.587	CD			3.04	1.28	2.16	3.64	1.88	2.76	2-4	20	S	D1050
S15-1.013	600	S15-14	29.346	27.471	S15-15	27.009	25.134	55.012	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	24	S	C1050
S15-1.014	600	S15-15	27.009	25.134	S15-16	26.086	24.099	20.691	CD			1.28	1.39	1.33	1.88	1.99	1.93	0-2	20	S	C1050
S15-1.015	600	S15-16	26.086	22.51	S15-17	20.404	18.529	79.618	CD			2.98	1.28	2.13	3.58	1.88	2.73	2-4	20	S	C1050
S15-1.016	600	S15-17	20.404	18.529	S15-18	18.172	16.297	58.672	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	26	S	C1050
S15-1.017	600	S15-18	18.172	16.297	S15-19	15.129	13.254	82.431	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	27	S	C1050
S15-1.018	600	S15-19	15.129	10.973	S15-20	10.387	8.512	49.217	CD			3.56	1.28	2.42	4.16	1.88	3.02	2-4	20	S	D1050
S15-1.019	600	S15-20	10.387	8.342	S15-21	8.2	7.125	24.345	CD			1.45	0.47	0.96	2.05	1.08	1.56	0-2	20	S	C1050
S15-1.022	225	S15-23	8.5	6.625	S15-40	7.402	6.386	40.812	CD			1.65	0.79	1.22	1.88	1.02	1.45	0-2	171	S	C1050
S15-2.000	300	S15-24	43.5	39.59	S15-26	41.75	39.425	28.315	CD	RC		3.61	2.03	2.82	3.91	2.33	3.12	2-4	172	Z	D1050
S15-3.000	225	S15-25	41.875	40.375	S15-26	41.75	40.25	3.328	CD	RC		1.28	1.28	1.28	1.50	1.50	1.50	0-2	27	Z	F1050
S15-2.001	225	S15-26	41.75	39.425	S15-27	41	39.298	21.663	CD	RC		2.10	1.48	1.79	2.33	1.70	2.01	2-4	171	Z	C1050
S15-2.002	225	S15-27	41	39.298	S15-28	39.875	38.375	48.041	CD			1.48	1.28	1.38	1.70	1.50	1.60	0-2	52	S	C1050
S15-2.003	225	S15-28	39.875	37.981	S15-29	36.671	35.171	56.198	CD			1.67	1.28	1.47	1.89	1.50	1.70	0-2	20	S	C1050
S15-2.004	225	S15-29	36.671	33.354	S15-30	33.094	31.594	35.195	CD			3.09	1.28	2.18	3.32	1.50	2.41	2-4	20	S	D1050
S15-2.005	225	S15-30	33.094	29.727	S15-31	29.467	27.967	35.195	CD			3.14	1.28	2.21	3.37	1.50	2.43	2-4	20	S	D1050
S15-2.006	225	S15-31	29.467	27.967	S15-32	26.934	25.434	59.505	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	23	S	F1050
S15-2.007	225	S15-32	26.934	25.434	S15-33	26.049	24.549	19.925	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	23	S	F1050
S15-2.008	225	S15-33	26.049	22.813	S15-34	20.437	18.937	77.528	CD			3.01	1.28	2.14	3.24	1.50	2.37	2-4	20	S	D1050
S15-2.009	225	S15-34	20.437	18.937	S15-35	18.123	16.623	59.694	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	26	S	F1050
S15-2.010	225	S15-35	18.123	16.623	S15-36	15.437	13.937	76.468	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S15-2.011	225	S15-36	15.437	11.624	S15-37	10.23	8.73	57.873	CD			3.59	1.28	2.43	3.81	1.50	2.66	2-4	20	S	D1050
S15-2.012	225	S15-37	10.23	8.73	S15-38	8.534	7.034	55.769	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	33	S	F1050
S15-2.013	225	S15-38	8.534	7.034	S15-39	8.175	6.557	79.719	CD			1.28	1.39	1.33	1.50	1.62	1.56	0-2	167	S	F1050
S15-2.014	225	S15-39	8.175	6.557	S15-40	7.402	6.386	5.699	CD			1.39	0.79	1.09	1.62	1.02	1.32	0-2	33	S	C1050
S15-1.023	225	S15-40	7.402	6.386	S15-41	6.729	6.104	48.344	CD			0.79	0.40	0.60	1.02	0.63	0.82	0-2	171	S	F1050
S15-1.024	225	S15-41	6.729	6.104	S15-100	6.38	5.945	27.241	CD			0.40	0.21	0.31	0.63	0.44	0.53	0-2	171	S	F1050

2. Gully Schedule									
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage							
S15-1.000	LR	MLN 7+600							
S15-1.001	LR	MLN 7+600							
S15-1.002	LR	MLN 7+600							
S15-1.003	LR	MLN 7+600							
S15-1.004	LR	MLN 7+600							
S15-1.005	LR	MLN 7+600							
S15-1.006	LR	MLN 7+600							
S15-1.007	LR	MLN 7+600							

3. Grassed Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment

4. Attenuation/Pollution Control			
Start Chainage	End Chainage	Pipe Number	
		S15-1.018	Petrol Interceptor Class 1 Bypass Separator NSB 030 Spillage Containment Area 25m3
	S15-1.019	Wetland - Vt 109m3	
	S15-1.020	Attenuation Pond - Volume of Storage 692m3	
	MH S15/22	Orifice - Qbar 6.8l/s	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S16A (Doc Ref. GCOB-4.03.03.3-019)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S16A-1.000	225	S16A-1	68.253	66.753	S16A-2	67.12	65.62	71.629	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	63	S	F1050
S16A-1.001	225	S16A-2	67.12	65.62	S16A-3	66.052	64.552	51.964	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S16A-1.002	225	S16A-3	66.052	64.552	S16A-4	64.978	63.478	52.266	CD			1.28	1.27	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S16A-1.003	225	S16A-4	64.978	63.478	S16A-5	64.117	62.617	41.991	CD			1.27	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S16A-1.004	225	S16A-5	64.117	62.617	S16A-6	63.201	61.701	42.416	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S16A-1.005	225	S16A-6	63.201	61.701	S16A-7	61.971	60.471	54.247	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S16A-1.006	225	S16A-7	61.971	60.471	S16A-13	61.025	59.525	47.878	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S16A-2.000	225	S16A-8	63.975	62.475	S16A-9	62.731	61.231	25.233	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	20	S	F1050
S16A-2.001	225	S16A-9	62.731	61.231	S16A-10	61.818	60.318	31.018	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	34	S	F1050
S16A-2.002	225	S16A-10	61.818	60.318	S16A-13	61.025	59.525	32.573	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	41	S	F1050
S16A-3.000	225	S16A-11	59.555	58.055	S16A-12	60.423	57.565	84	CD			1.28	2.63	1.95	1.50	2.86	2.18	2-4	171	S	F1050
S16A-3.001	225	S16A-12	60.423	57.565	S16A-13	61.025	57.255	52.369	CD			2.63	3.55	3.09	2.86	3.77	3.31	2-4	169	S	C1050
S16A-1.007	525	S16A-13	61.025	56.955	S16A-17	60.786	56.925	14.842	CD			3.55	3.34	3.44	4.07	3.86	3.97	2-4	495	S	D1200
S16A-4.000	225	S16A-14	59.744	58.244	S16A-15	60.578	57.764	81.116	CD			1.28	2.59	1.93	1.50	2.81	2.16	2-4	169	S	F1050
S16A-4.001	225	S16A-15	60.578	57.764	S16A-17	60.786	57.453	52.506	CD			2.59	3.11	2.85	2.81	3.33	3.07	2-4	169	S	C1050
S16A-5.000	225	S16A-16	64.772	63.272	S16A-17	60.786	59.286	98.368	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	F1050
S16A-1.008	525	S16A-17	60.786	56.925	S16A-18	60.187	56.832	26.977	CD			3.34	2.83	3.08	3.86	3.36	3.61	2-4	290	S	D1200
S16A-1.009	525	S16A-18	60.187	56.832	S16A-23	59.032	56.754	57.553	CD			2.83	1.75	2.29	3.36	2.28	2.82	2-4	738	S	C1200
S16A-6.000	225	S16A-19	62.743	61.243	S16A-20	59.42	57.92	85.583	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	26	S	F1050
S16A-6.001	225	S16A-20	59.42	57.92	S16A-23	59.032	57.532	17.671	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S16A-7.000	225	S16A-21	61.135	59.635	S16A-22	60.324	58.824	86.032	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	106	S	F1050
S16A-7.001	225	S16A-22	60.324	58.824	S16A-23	59.032	57.532	66.122	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S16A-1.010	525	S16A-23	59.032	56.754	S16A-30	58.894	56.722	11.049	CD			1.75	1.65	1.70	2.28	2.17	2.23	2-4	345	S	C1200
S16A-8.000	225	S16A-24	67.549	66.049	S16A-25	65.851	64.351	89.714	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	53	S	F1050
S16A-8.001	150	S16A-25	65.851	64.351	S16A-26	63.642	62.305	57.731	CD			1.35	1.19	1.27	1.50	1.34	1.42	0-2	28	S	F1050
S16A-8.002	150	S16A-26	63.642	62.305	S16A-27	60.051	58.626	75.819	CD			1.19	1.28	1.23	1.34	1.43	1.38	0-2	21	S	F1050
S16A-8.003	225	S16A-27	60.051	58.551	S16A-30	58.894	57.271	51.929	CD			1.28	1.40	1.34	1.50	1.62	1.56	0-2	41	S	F1050
S16A-9.000	225	S16A-28	60.937	59.38	S16A-29	60.218	58.697	80.546	CD			1.33	1.30	1.31	1.56	1.52	1.54	0-2	118	S	F1050
S16A-9.001	225	S16A-29	60.218	58.697	S16A-30	58.894	57.271	70.003	CD			1.30	1.40	1.35	1.52	1.62	1.57	0-2	49	S	F1050
S16A-1.011	600	S16A-30	58.894	54.811	S16A-31	56.491	54.616	100.937	CD			3.48	1.28	2.38	4.08	1.88	2.98	2-4	518	S	D1200
S16A-1.012	600	S16A-31	56.491	52.502	S16A-32	54.287	52.412	44.868	CD			3.39	1.28	2.33	3.99	1.88	2.93	2-4	499	S	D1200
S16A-1.013	600	S16A-32	54.287	50.763	S16A-33	52.567	50.692	34.935	CD			2.92	1.28	2.10	3.52	1.88	2.70	2-4	492	S	C1200
S16A-1.014	600	S16A-33	52.567	48.881	S16A-34	50.677	48.802	39.255	CD			3.09	1.28	2.18	3.69	1.88	2.78	2-4	497	S	D1200
S16A-1.015	600	S16A-34	50.677	46.893	S16A-35	48.681	46.806	42.909	CD			3.18	1.28	2.23	3.78	1.88	2.83	2-4	493	S	D1200
S16A-1.016	600	S16A-35	48.681	45.296	S16A-36	47.053	45.178	58.526	CD			2.79	1.28	2.03	3.39	1.88	2.63	2-4	496	S	C1200
S16A-1.017	600	S16A-36	47.053	44.309	S16A-37	46.037	44.211	50.67	CD			2.14	1.23	1.69	2.74	1.83	2.29	2-4	517	S	C1200
S16A-1.018	900	S16A-37	46.037	43.505	S16A-40	45.62	43.445	27.474	CD			1.63	1.28	1.45	2.53	2.18	2.35	2-4	458	S	C1500
S16A-10.000	225	S16A-38	45.3	43.8	S16A-39	45.633	43.593	35.032	CD			1.28	1.82	1.55	1.50	2.04	1.77	0-2	169	S	F1050
S16A-10.001	225	S16A-39	45.633	43.593	S16A-40	45.62	43.536	13.965	CD			1.82	1.86	1.84	2.04	2.08	2.06	2-4	245	S	C1050
S16A-1.019	900	S16A-40	45.62	42.861	S16A-41	44.713	42.538	48.345	CD			1.86	1.28	1.57	2.76	2.18	2.47	2-4	150	S	C1500
S16A-1.020	900	S16A-41	44.713	39.98	S16A-42	41.863	39.838	70.378	CD			3.83	1.13	2.48	4.73	2.03	3.38	2-4	496	S	D1500
S16A-1.021	900	S16A-42	41.863	39.43	S16A-51	41.863	39.413	8.6	CD			1.53	1.55	1.54	2.43	2.45	2.44	2-4	506	S	C1500

S16A-11.000	225	S16A-43	46.931	45.431	S16A-44	46.835	45.121	52.747	FD		1.28	1.49	1.38	1.50	1.71	1.61	0-2	170	K	F1050
S16A-11.001	225	S16A-44	46.835	45.121	S16A-45	46.15	44.65	40	CD		1.49	1.28	1.38	1.71	1.50	1.61	0-2	85	S	C1050
S16A-11.002	225	S16A-45	46.15	44.65	S16A-48	46.016	44.561	8.246	CD	RC	1.28	1.23	1.25	1.50	1.46	1.48	0-2	93	Z	F1050
S16A-12.000	225	S16A-46	47.03	45.53	S16A-47	46.95	45.275	43.721	FD		1.28	1.45	1.36	1.50	1.68	1.59	0-2	171	K	F1050
S16A-12.001	225	S16A-47	46.95	45.275	S16A-48	46.016	44.516	44.943	CD		1.45	1.28	1.36	1.68	1.50	1.59	0-2	59	S	C1050
S16A-11.003	225	S16A-48	46.016	44.516	S16A-49	45.846	44.346	12.018	CD		1.28	1.28	1.28	1.50	1.50	1.50	0-2	71	S	F1050
S16A-11.004	225	S16A-49	45.846	44.346	S16A-50	44.713	43.213	59.601	CD		1.28	1.28	1.28	1.50	1.50	1.50	0-2	53	S	F1050
S16A-11.005	225	S16A-50	44.713	43.213	S16A-51	41.863	40.088	69.729	CD		1.28	1.55	1.41	1.50	1.78	1.64	0-2	22	S	F1050
S16A-1.022	900	S16A-51	41.863	37.475	S16A-52	38.5	37.425	18.055	CD		3.49	0.18	1.83	4.39	1.08	2.73	2-4	361	S	D1500
S16A-1.023	900	S16A-52	38.5	37.425	S16A-53	38.5	37.39	15.921	CD		0.18	0.21	0.19	1.08	1.11	1.09	0-2	455	S	B
S16A-1.026	225	S16A-55	38.5	36.59	S16A-56	37.6	36.521	11.551	CD		1.69	0.85	1.27	1.91	1.08	1.49	0-2	167	S	C1050
S16A-1.027	225	S16A-56	37.6	36.521	S16A-100	37.6	36.486	5.919	CD		0.85	0.89	0.87	1.08	1.11	1.10	0-2	169	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																	
S16A-1.000	LR	MLN 7+575																	
S16A-1.001	LR	MLN 7+575																	
S16A-1.002	LR	MLN 7+575																	
S16A-1.003	LR	MLN 7+575																	
S16A-1.004	LR	MLN 7+575																	
S16A-1.005	LR	MLN 7+575																	
S16A-1.006	LR	MLN 7+575																	
S16A-2.001	LR	MLN 7+550																	
S16A-2.002	LR	MLN 7+550																	
S16A-3.001	LR	MLN 7+600																	
S16A-1.007	LR	MLN 7+575																	
S16A-4.001	LR	MLN 7+600																	
S16A-5.000	LR	MLN 7+550																	
S16A-1.008	LR	MLN 7+575																	
S16A-1.009	LR	MLN 7+575																	
S16A-6.000	LR	MLN 7+550																	
S16A-7.001	LR	MLN 7+600																	
S16A-8.003	LR	MLN 7+550																	
S16A-9.001	LR	MLN 7+600																	
S16A-1.011	LR	MLN 7+575																	
S16A-1.012	LR	MLN 7+575																	
S16A-1.013	LR	MLN 7+575																	
S16A-1.014	LR	MLN 7+575																	
S16A-1.015	LR	MLN 7+575																	
S16A-1.016	LR	MLN 7+575																	
S16A-1.017	LR	MLN 7+575																	
S16A-10.000	LR	MLN 7+575																	
S16A-10.001	LR	MLN 7+575																	
S16A-1.019	LR	MLN 7+575																	
S16A-1.020	LR	MLN 7+575																	
S16A-11.001	LR	MLN 7+575																	
S16A-12.001	LR	MLN 7+575																	
S16A-11.003	LR	MLN 7+575																	
S16A-11.004	LR	MLN 7+575																	
S16A-11.005	LR	MLN 7+575																	

3. Grassed and Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 7+625	MLN 7+700	84																
SWC	MLN 7+625	MLN 7+700	81.116																
GSWC	MLN 7+450	MLN 7+500	75.819																
SWC	MLN 7+650	MLN 7+740	86.032																
SWC	MLN 7+650	MLN 7+740	80.546																
SWC	MLN 7+300	MLN 7+450	147.445																

3. Grassed and Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	MLN 7+475	MLN 7+525	25.233																

4. Attenuation/Pollution Control			
Start Chainage	End Chainage	Pipe Number	
		S16A-1.023	Petrol Interceptor Class 1 Bypass Separator NSB 075 Spillage Containment Area 25m3
		S16A-1.024	Wetland - Vt 322.35m3
		S16A-1.025	Attenuation Pond - Volume of Storage 1620m3
		MH S16A/55	Hydrobrake - Qbar 14.9l/s

N6 GCRR Drainage Schedules																			
N6 Galway City Ring Road																			
Drainage: Schedule S16B (Doc Ref. GCOB-4.03.03.3-020)										Rev -									

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽²⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S16B-1.000	450	S16B-1	45.089	40.346	S16B-2	41.886	40.161	74.83	FD			4.29	1.28	2.78	4.74	1.73	3.23	2-4	404	K	D1050
S16B-1.001	450	S16B-2	41.886	40.161	S16B-3	41.3	39.875	35.449	FD			1.28	0.97	1.13	1.73	1.43	1.58	0-2	124	K	F1050
S16B-1.002	450	S16B-3	41.3	39.875	S16B-6	41.293	39.868	2.3	CD	RC		0.97	0.97	0.97	1.43	1.43	1.43	0-2	329	Z	F1050
S16B-2.000	225	S16B-4	45.074	43.574	S16B-5	41.885	40.385	74.623	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	23	S	F1050
S16B-2.001	225	S16B-5	41.885	40.385	S16B-6	41.293	40.093	35.243	FD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	121	K	F1050
S16B-1.003	450	S16B-6	41.293	39.868	S16B-7	41	39.784	22.415	CD			0.97	0.77	0.87	1.43	1.22	1.32	0-2	267	S	F1050
S16B-1.004	225	S16B-7	41	39.784	S16B-100	40.99	39.758	4.297	CD			0.99	1.01	1.00	1.22	1.23	1.22	0-2	165	S	F1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																	

3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	LK 1+475	LK 1+475	74.623																

4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		
		MH S16B/7	Hydrobrake - Design Discharge 5l/s																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S17A (Doc Ref. GCOB-4.03.03.03-021)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S17A-1.000	225	S17A-1	41.868	40.368	S17A-2	37.37	35.87	87.548	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	19	S	F1050
S17A-1.001	225	S17A-2	37.37	35.87	S17A-3	35.518	34.018	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S17A-1.002	225	S17A-3	35.518	34.018	S17A-4	34.759	33.259	72.149	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	95	S	F1050
S17A-1.003	225	S17A-4	34.759	33.259	S17A-5	34.447	32.947	27.226	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	87	S	F1050
S17A-1.004	225	S17A-5	34.447	32.947	S17A-7	34.283	32.783	19.747	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	120	S	F1050
S17A-2.000	225	S17A-6	34.592	33.092	S17A-7	34.283	32.783	9.082	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S17A-1.005	225	S17A-7	34.283	32.783	S17A-8	33.884	32.384	39.475	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	99	S	F1050
S17A-1.006	225	S17A-8	33.884	32.384	S17A-9	33.118	31.618	79.748	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	104	S	F1050
S17A-1.007	300	S17A-9	33.118	31.543	S17A-16	32.501	30.926	61.703	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	100	S	F1050
S17A-3.000	225	S17A-10	34.365	32.865	S17A-11	34.042	32.542	8.714	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	27	S	F1050
S17A-3.001	225	S17A-11	34.042	32.542	S17A-12	33.485	31.985	28.61	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S17A-3.002	225	S17A-12	33.485	31.985	S17A-13	33.271	31.771	24.423	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	114	S	F1050
S17A-3.003	225	S17A-13	33.271	31.771	S17A-14	33.095	31.595	9.999	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	57	S	F1050
S17A-3.004	225	S17A-14	33.095	31.595	S17A-15	32.6	31.1	20.317	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	41	S	F1050
S17A-3.005	225	S17A-15	32.6	31.1	S17A-16	32.501	31.001	16.762	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	169	S	F1050
S17A-1.008	450	S17A-16	32.501	30.776	S17A-29	32.8	30.754	9.01	CD			1.28	1.60	1.44	1.73	2.05	1.89	0-2	410	S	F1050
S17A-4.000	225	S17A-17	41.868	40.368	S17A-18	37.37	35.87	87.909	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	20	S	F1050
S17A-4.001	225	S17A-18	37.37	35.87	S17A-19	35.518	34.018	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S17A-4.002	225	S17A-19	35.518	34.018	S17A-20	35.116	33.616	50.059	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	125	S	F1050
S17A-4.003	225	S17A-20	35.116	33.616	S17A-21	34.827	33.327	40.408	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	140	S	F1050
S17A-6.000	225	S17A-23	37.295	33.777	S17A-24	35.067	33.567	35.472	CD			3.29	1.28	2.28	3.52	1.50	2.51	2-4	169	S	D1050
S17A-6.001	225	S17A-24	35.067	33.567	S17A-25	34.873	33.511	9.513	CD			1.28	1.14	1.21	1.50	1.36	1.43	0-2	170	S	F1050
S17A-4.004	225	S17A-21	34.827	33.327	S17A-26	34.568	33.068	25.306	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	98	S	F1050
S17A-5.000	225	S17A-22	37.274	33.603	S17A-25	34.873	33.373	39.136	CD			3.45	1.28	2.36	3.67	1.50	2.59	2-4	170	S	D1050
S17A-5.001	225	S17A-25	34.873	33.373	S17A-26	34.568	33.068	10.123	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	33	S	F1050
S17A-4.005	225	S17A-26	34.568	33.068	S17A-27	34.122	32.622	45.536	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	102	S	F1050
S17A-4.006	225	S17A-27	34.122	32.622	S17A-28	33.118	31.618	80.234	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	80	S	F1050
S17A-4.007	225	S17A-28	33.118	31.618	S17A-29	32.8	31.258	61.289	CD			1.28	1.32	1.30	1.50	1.54	1.52	0-2	170	S	F1050
S17A-1.009	450	S17A-29	32.8	30.754	S17A-30	32.5	30.694	23.633	CD			1.60	1.36	1.48	2.05	1.81	1.93	0-2	394	S	C1050
S17A-1.012	225	S17A-32	33.75	30.044	S17A-33	33.86	29.764	47.241	CD			3.48	3.87	3.68	3.71	4.10	3.90	2-4	169	S	D1050
S17A-1.013	225	S17A-33	33.86	29.764	S17A-100	33.88	29.755	1.5	CD			3.87	3.90	3.89	4.10	4.13	4.11	4-6	167	S	D1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																		
S17A-1.000	LR	MLN 7+400																		
S17A-1.001	LR	MLN 7+400																		
S17A-1.002	LR	MLN 7+400																		
S17A-1.003	LR	MLN 7+400																		
S17A-1.004	LR	MLN 7+400																		
S17A-2.000	LR	MLN 7+400																		
S17A-1.005	LR	MLN 7+400																		
S17A-1.006	LR	MLN 7+400																		
S17A-1.007	LR	MLN 7+400																		
S17A-3.000	LR	MLN 7+400																		
S17A-3.001	LR	MLN 7+400																		
S17A-3.002	LR	MLN 7+400																		
S17A-3.004	LR	MLN 7+400																		
S17A-3.005	LR	MLN 7+400																		
S17A-4.000	LR	MLN 7+400																		
S17A-4.001	LR	MLN 7+400																		
S17A-4.002	LR	MLN 7+400																		
S17A-4.003	LR	MLN 7+400																		
S17A-5.000	LR	MLN 7+400																		
S17A-6.000	LR	MLN 7+400																		
S17A-6.001	LR	MLN 7+400																		
S17A-5.001	LR	MLN 7+400																		
S17A-4.005	LR	MLN 7+400																		
S17A-4.006	LR	MLN 7+400																		
S17A-4.007	LR	MLN 7+400																		

3. Grassed Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment

4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S17A-1.009	Petrol Interceptor Class 1 Bypass Separator NSB 020 Spillage Containment Area 25m3																
		S17A-1.010	Wetland - Vt 147.3m3																
		S17A-1.011	Attenuation Pond - Volume of Storage 522m3																
		MH S17A/32	Hydrobrake - Design Discharge 5l/s																

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
Drainage: Schedule S17B (Doc Ref. GCOB-4.03.03.3-022) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S17B-1.000	225	S17B-1	34.678	33.178	S17B-2	33.664	32.164	69.004	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	68	S	F1050
S17B-1.001	225	S17B-2	33.664	32.164	S17B-3	33.4	31.9	25.007	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	95	S	F1050
S17B-1.002	225	S17B-3	33.4	31.9	S17B-4	33.034	31.534	34.951	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	95	S	F1050
S17B-1.003	225	S17B-4	33.034	31.534	S17B-5	32.8	31.3	22.381	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	96	S	F1050
S17B-1.004	225	S17B-5	32.8	31.3	S17B-8	32.641	31	12.334	CD			1.28	1.42	1.35	1.50	1.64	1.57	0-2	41	S	F1050
S17B-2.000	750	S17B-6	31.57	30.2	S17B-7	32.093	30.1	49.969	CD			0.62	1.24	0.93	1.37	1.99	1.68	0-2	500	S	B
S17B-2.001	900	S17B-7	32.093	30.1	S17B-8	32.641	30.022	55.083	CD			1.09	1.72	1.41	1.99	2.62	2.31	2-4	706	S	C1500
S17B-1.005	225	S17B-8	32.641	30.022	S17B-100	32	29.896	14.487	CD			2.39	1.88	2.14	2.62	2.10	2.36	2-4	115	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage
S17B-1.000	LR	MLN 6+900
S17B-1.001	LR	MLN 6+900
S17B-1.002	LR	MLN 6+900
S17B-1.003	LR	MLN 6+900
S17B-1.004	LR	MLN 6+900
S17B-2.000	LR	MLN 6+900
S17B-2.001	LR	MLN 6+900

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		MH S17B/8 Hydrobrake - Design Discharge 5l/s

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
 Drainage: Schedule S18A (Doc Ref. GCOB-4.03.03.3-023) Rev -

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S18A-1.000	150	S18A-1	32.689	31.264	S18A-2	31.441	30.016	31.384	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	25	S	F1050
S18A-1.001	150	S18A-2	31.441	30.016	S18A-3	29.704	28.279	51.693	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	30	S	F1050
S18A-1.002	300	S18A-3	29.704	28.129	S18A-6	30.057	28.075	13.104	CD			1.28	1.68	1.48	1.58	1.98	1.78	0-2	243	S	F1050
S18A-2.000	150	S18A-4	33.32	32.495	S18A-5	31.897	31.072	36.187	SD			0.68	0.67	0.68	0.83	0.82	0.83	0-2	25	N/A	F1050
S18A-2.001	150	S18A-5	31.897	31.072	S18A-6	30.057	29.232	54.704	SD			0.67	0.67	0.67	0.82	0.82	0.82	0-2	30	N/A	F1050
S18A-1.003	375	S18A-6	30.057	28	S18A-7	30.251	27.96	13.054	CD			1.68	1.92	1.80	2.06	2.29	2.17	2-4	326	S	C1050
S18A-1.004	375	S18A-7	30.251	27.96	S18A-10	28.528	26.878	70.464	CD			1.92	1.28	1.60	2.29	1.65	1.97	0-2	65	S	C1050
S18A-3.000	150	S18A-8	29.814	28.989	S18A-9	28.439	27.614	57.424	SD			0.67	0.67	0.67	0.82	0.82	0.82	0-2	42	N/A	F1050
S18A-3.001	300	S18A-9	28.439	27.011	S18A-10	28.528	26.953	14.32	CD	RC		1.13	1.28	1.20	1.43	1.58	1.50	0-2	247	Z	F1050
S18A-1.005	375	S18A-10	28.528	26.878	S18A-13	27.338	25.688	91.129	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	77	S	F1050
S18A-4.000	150	S18A-11	28.24	27.415	S18A-12	27.196	26.371	80.371	SD			0.67	0.68	0.68	0.82	0.83	0.83	0-2	77	N/A	F1050
S18A-4.001	300	S18A-12	27.196	25.812	S18A-13	27.338	25.763	11.906	CD	RC		1.08	1.28	1.18	1.38	1.58	1.48	0-2	243	Z	F1050
S18A-1.006	375	S18A-13	27.338	25.688	S18A-16	26.403	24.753	94.116	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	101	N/A	F1050
S18A-5.000	150	S18A-14	27.132	26.307	S18A-15	26.296	25.471	83.857	SD			0.68	0.67	0.68	0.83	0.82	0.83	0-2	100	N/A	F1050
S18A-5.001	300	S18A-15	26.296	24.878	S18A-16	26.403	24.828	12.14	CD	RC		1.12	1.28	1.20	1.42	1.58	1.50	0-2	243	Z	F1050
S18A-1.007	375	S18A-16	26.403	24.753	S18A-19	25.315	23.666	98	SD			1.28	1.27	1.27	1.65	1.65	1.65	0-2	90	N/A	F1050
S18A-6.000	225	S18A-17	26.207	25.307	S18A-18	25.257	24.357	93.358	SD			0.68	0.68	0.68	0.90	0.90	0.90	0-2	98	N/A	F1050
S18A-6.001	300	S18A-18	25.257	23.786	S18A-19	25.315	23.74	9.136	CD	RC		1.17	1.28	1.22	1.47	1.58	1.52	0-2	199	Z	F1050
S18A-1.008	375	S18A-19	25.315	23.665	S18A-20	24.103	22.453	90.79	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	75	N/A	F1050
S18A-1.009	375	S18A-20	24.103	22.453	S18A-28	23.283	21.633	79.033	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	96	N/A	F1050
S18A-7.000	150	S18A-21	29.448	28.023	S18A-22	27.861	26.436	68.343	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	43	S	F1050
S18A-7.001	225	S18A-22	27.861	26.361	S18A-23	26.739	25.239	90	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	80	S	F1050
S18A-7.002	375	S18A-23	26.739	25.089	S18A-24	25.855	24.205	94.207	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	107	N/A	F1050
S18A-7.003	375	S18A-24	25.855	24.205	S18A-25	25.006	23.356	89.922	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	106	N/A	F1050
S18A-7.004	375	S18A-25	25.006	23.356	S18A-26	24.156	22.506	84.431	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	99	N/A	F1050
S18A-7.005	375	S18A-26	24.156	22.506	S18A-27	23.407	21.758	75.492	SD			1.28	1.27	1.27	1.65	1.65	1.65	0-2	101	N/A	F1050
S18A-7.006	450	S18A-27	23.407	21.683	S18A-28	23.283	21.558	18.703	CD			1.27	1.28	1.27	1.72	1.73	1.72	0-2	150	S	F1050
S18A-1.010	525	S18A-28	23.283	9	S18A-29	10.8	8.85	13.788	CD			13.76	1.43	7.59	14.28	1.95	8.12	8-10	92	S	C1200
S18A-8.000	150	S18A-30	23.332	22.507	S18A-31	22.446	21.621	89.772	SD			0.67	0.68	0.68	0.82	0.83	0.83	0-2	101	N/A	F1050
S18A-8.001	300	S18A-31	22.446	20.871	S18A-33	22.4	20.774	16.494	CD			1.28	1.33	1.30	1.58	1.63	1.60	0-2	170	S	F1050
S18A-9.000	150	S18A-32	23.238	22.413	S18A-33	22.4	21.575	79.116	CD			0.67	0.67	0.67	0.82	0.82	0.82	0-2	94	S	F1050
S18A-8.002	300	S18A-33	22.4	8.85	S18A-34	9.75	8.755	4.647	CD			13.25	0.69	6.97	13.55	0.99	7.27	6-8	49	S	#N/A
S18A-8.003	300	S18A-34	9.75	8.755	S18A-35	9.5	8.525	15.087	CD			0.69	0.68	0.68	0.99	0.98	0.98	0-2	66	S	F1050
S18A-1.013	525	S18A-37	9.75	8.432	S18A-38	10.2	8.375	28.201	CD			0.79	1.30	1.05	1.32	1.83	1.57	0-2	495	S	B
S18A-1.014	525	S18A-38	10.2	5.811	S18A-100	6.6	5.775	17.852	CD			3.86	0.30	2.08	4.39	0.82	2.61	2-4	496	S	D1200

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	(22)																		
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	8+550	8+650	83.077																
SWC	8+650	8+800	161.593																
SWC	8+650	8+800	158.343																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S18A-1.010	Petrol Interceptor Class 1 Bypass Separator NSB E040																
		S18A-8.003	Petrol Interceptor Class 1 Bypass Separator NSB P006																
			2 x Spillage Containment Area 25m3																
		S18A-1.012	Wetland - Vt 237m3																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S18B (Doc Ref. GCOB-4.03.03.3-024)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S18b-1.000	150	S18b-1	28.94	27.515	S18b-2	28.824	27.043	48.038	SD			1.28	1.63	1.45	1.43	1.78	1.60	0-2	102	N/A	F1050
S18b-1.001	225	S18b-2	28.824	26.968	S18b-3	28.4	26.649	54.72	SD			1.63	1.53	1.58	1.86	1.75	1.80	0-2	172	N/A	C1050
S18b-1.002	225	S18b-3	28.4	26.649	S18b-4	27.58	26.08	60.385	SD			1.53	1.28	1.40	1.75	1.50	1.63	0-2	106	N/A	C1050
S18b-1.003	225	S18b-4	27.58	26.08	S18b-5	26.371	24.871	59.994	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	50	N/A	F1050
S18b-1.004	375	S18b-5	26.371	24.126	S18b-9	25.725	24.075	16.627	CD			1.87	1.28	1.57	2.25	1.65	1.95	0-2	326	S	C1050
S18b-2.000	225	S18b-6	28.567	27.067	S18b-7	27.999	26.499	91.27	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	161	S	F1050
S18b-2.001	225	S18b-7	27.999	26.499	S18b-8	27.124	25.624	64.211	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	73	S	F1050
S18b-2.002	225	S18b-8	27.124	25.624	S18b-9	25.725	24.225	72.254	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	52	S	F1050
S18b-1.005	375	S18b-9	25.725	24.075	S18b-10	24.288	22.638	56.965	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	40	S	F1050
S18b-1.006	375	S18b-10	24.288	22.638	S18b-11	22.8	21.15	62.227	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	42	S	F1050
S18b-1.007	375	S18b-11	22.8	21.15	S18b-12	21.278	19.628	85.578	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	56	S	F1050
S18b-1.008	375	S18b-12	21.278	19.628	S18b-13	20.387	18.738	80.232	CD			1.28	1.27	1.27	1.65	1.65	1.65	0-2	90	S	F1050
S18b-1.009	375	S18b-13	20.387	18.738	S18b-28	20.133	18.483	63.946	CD			1.27	1.28	1.27	1.65	1.65	1.65	0-2	251	S	F1050
S18b-3.000	150	S18b-14	22.383	20.958	S18b-15	21.637	20.212	74.67	SD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	100	N/A	F1050
S18b-3.001	225	S18b-15	21.637	20.137	S18b-16	20.862	19.362	77.543	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	100	N/A	F1050
S18b-3.002	225	S18b-16	20.862	19.362	S18b-17	20.341	18.841	69.585	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	134	N/A	F1050
S18b-3.003	225	S18b-17	20.341	18.841	S18b-28	20.133	18.353	83.751	SD			1.28	1.56	1.42	1.50	1.78	1.64	0-2	172	N/A	F1050
S18b-4.000	150	S18b-18	27.563	26.138	S18b-19	25.755	24.33	63.947	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	35	S	F1050
S18b-4.001	150	S18b-19	25.755	24.33	S18b-20	23.6	22.175	70.059	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	33	S	F1050
S18b-4.002	225	S18b-20	23.6	22.1	S18b-21	21.739	20.239	91.514	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S18b-4.003	300	S18b-21	21.739	20.164	S18b-22	20.575	19	88.32	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	76	S	F1050
S18b-4.004	300	S18b-22	20.575	19	S18b-27	20.143	18.568	84.005	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	194	S	F1050
S18b-5.000	150	S18b-23	22.399	20.974	S18b-24	21.624	20.199	76.481	SD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	99	N/A	F1050
S18b-5.001	225	S18b-24	21.624	20.124	S18b-25	20.839	19.339	79.786	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	102	N/A	F1050
S18b-5.002	225	S18b-25	20.839	19.339	S18b-26	20.281	18.781	81.017	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	145	N/A	F1050
S18b-5.003	225	S18b-26	20.281	18.781	S18b-27	20.143	18.389	67.132	CD			1.28	1.53	1.40	1.50	1.75	1.63	0-2	171	S	F1050
S18b-4.005	525	S18b-27	20.143	18.089	S18b-28	20.133	18.041	23.623	CD			1.53	1.57	1.55	2.05	2.09	2.07	2-4	492	S	C1200
S18b-1.010	600	S18b-28	20.133	11.255	S18b-29	13.1	11.225	15.085	CD			8.28	1.28	4.78	8.88	1.88	5.38	4-6	503	S	C1200
S18b-1.011	600	S18b-29	13.1	10.297	S18b-30	12	10.241	32.515	CD			2.20	1.16	1.68	2.80	1.76	2.28	2-4	581	S	C1200
S18b-1.014	825	S18b-32	12.75	7.027	S18b-33	8.1	6.967	29.881	CD			4.90	0.31	2.60	5.72	1.13	3.43	2-4	498	S	D1500
S18b-1.015	825	S18b-33	8.1	6.967	S18b-100	7.85	6.81	78.525	CD			0.31	0.22	0.26	1.13	1.04	1.09	0-2	500	S	B

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	9+500	9+960	464.977																
SWC	9+560	10+150	576.683																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		Petrol Interceptor Class 1 Bypass Separator NSB 050
		Spillage Containment Area - 25m3 Wetland - Volume of treatment 293.1m3

N6 GCTP Drainage Schedules
N6 Galway City Transport Project
Drainage: Schedule S19A (Doc Ref. GCOB-4.03.03.3-025) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S19A-1.000	225	S19A-1	28.526	27.326	S19A-2	28.303	26.803	65	SD			0.97	1.28	1.13	1.20	1.50	1.35	0-2	124	N/A	F1050
S19A-1.001	225	S19A-2	28.303	26.803	S19A-3	27.566	26.066	70	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	95	N/A	F1050
S19A-1.002	225	S19A-3	27.566	26.066	S19A-4	26.438	24.938	70	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	62	N/A	F1050
S19A-1.003	225	S19A-4	26.438	24.938	S19A-5	24.399	22.899	80.895	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	40	N/A	F1050
S19A-1.004	225	S19A-5	24.399	22.899	S19A-6	20.938	19.438	97.933	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S19A-1.005	300	S19A-6	20.938	17.025	S19A-7	17.1	15.525	95.472	CD			3.61	1.28	2.44	3.91	1.58	2.74	2-4	64	S	D1050
S19A-1.006	300	S19A-7	17.1	15.525	S19A-8	13.821	12.246	95.728	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	29	S	F1050
S19A-1.007	900	S19A-8	13.821	11.646	S19A-16	14.224	11.62	13.224	CD			1.28	1.70	1.49	2.18	2.60	2.39	2-4	509	S	C1500
S19A-2.000	225	S19A-9	28.947	27.447	S19A-10	28.732	27.094	60	SD			1.28	1.41	1.34	1.50	1.64	1.57	0-2	170	N/A	F1050
S19A-2.001	225	S19A-10	28.732	27.094	S19A-11	28.169	26.669	59.966	SD			1.41	1.28	1.34	1.64	1.50	1.57	0-2	141	N/A	C1050
S19A-2.002	225	S19A-11	28.169	26.669	S19A-12	26.932	25.432	75.656	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	61	N/A	F1050
S19A-2.003	225	S19A-12	26.932	25.432	S19A-13	24.6	23.1	94.033	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	40	N/A	F1050
S19A-2.004	225	S19A-13	24.6	23.1	S19A-14	21.306	19.806	96.413	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	N/A	F1050
S19A-2.005	225	S19A-14	21.306	19.806	S19A-15	17.549	16.049	93.924	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	N/A	F1050
S19A-2.006	300	S19A-15	17.549	15.974	S19A-16	14.224	12.649	97.109	SD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	29	N/A	F1050
S19A-1.008	900	S19A-16	14.224	11.62	S19A-17	14.458	11.595	12.651	CD			1.70	1.96	1.83	2.60	2.86	2.73	2-4	506	S	C1500
S19A-1.009	900	S19A-17	14.458	11.595	S19A-21	13.7	11.568	13.616	CD			1.96	1.23	1.60	2.86	2.13	2.50	2-4	504	S	C1500
S19A-3.000	225	S19A-18	19.435	17.935	S19A-19	17.59	16.09	40.094	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S19A-3.001	225	S19A-19	17.59	16.09	S19A-20	16.23	14.73	29.034	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	21	S	F1050
S19A-3.002	225	S19A-20	16.23	14.73	S19A-21	13.7	12.5	50.726	CD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	23	S	F1050
S19A-1.010	900	S19A-21	13.7	11.568	S19A-31	13.974	11.545	11.612	CD			1.23	1.53	1.38	2.13	2.43	2.28	2-4	505	S	C1500
S19A-4.000	225	S19A-22	17.275	15.775	S19A-23	16.587	15.087	44.874	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	65	S	F1050
S19A-4.001	225	S19A-23	16.587	15.087	S19A-24	17.665	14.802	48.448	CD			1.28	2.64	1.96	1.50	2.86	2.18	2-4	170	S	F1050
S19A-4.002	225	S19A-24	17.665	14.802	S19A-27	17.28	14.522	47.677	CD			2.64	2.53	2.59	2.86	2.76	2.81	2-4	170	S	C1050
S19A-5.000	225	S19A-25	19.663	18.163	S19A-26	19.582	17.773	66.27	CD			1.28	1.58	1.43	1.50	1.81	1.65	0-2	170	S	F1050
S19A-5.001	225	S19A-26	19.582	17.773	S19A-27	17.28	15.78	84.206	CD			1.58	1.28	1.43	1.81	1.50	1.65	0-2	42	S	C1050
S19A-4.003	225	S19A-27	17.28	14.522	S19A-30	14.788	13.588	63.886	CD			2.53	0.98	1.75	2.76	1.20	1.98	0-2	68	S	C1050
S19A-6.000	225	S19A-28	16.413	14.043	S19A-29	15.117	13.917	21.532	CD			2.15	0.98	1.56	2.37	1.20	1.79	0-2	171	S	C1050
S19A-6.001	225	S19A-29	15.117	13.619	S19A-30	14.788	13.588	5.192	CD	RC		1.27	0.98	1.12	1.50	1.20	1.35	0-2	167	Z	F1050
S19A-4.004	225	S19A-30	14.788	13.588	S19A-31	13.974	12.774	21.671	CD			0.98	0.98	0.98	1.20	1.20	1.20	0-2	27	S	F1050
S19A-1.011	900	S19A-31	13.974	11.545	S19A-32	13.625	11.502	5.743	CD			1.53	1.22	1.38	2.43	2.12	2.28	2-4	134	S	C1500
S19A-1.012	900	S19A-32	13.625	11.502	S19A-33	14	11.302	16.71	CD			1.22	1.80	1.51	2.12	2.70	2.41	2-4	84	S	C1500

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	⁽²²⁾																		
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	10+450	10+750	289.133																
SWC	10+500	10+700	238.168																
SWC	10+625	10+675	150.476																
SWC	10+650	10+675	26.724																
SWC	10+700	10+725	119.854																
4. Attenuation/Pollution Control																			
	Start Chainage	End Chainage	Pipe Number																
			S19A-1.012	Petrol Interceptor Class 1 Bypass Separator NSB 050															
				Spillage Containment Area -25m3															
			S19A-1.013	Wetland - Volume of treatment 249m3															
			S19A-1.014	Infiltration Basin - 1226m3															

N6 GCRR Drainage Schedules																				
N6 Galway City Ring Road																				
Drainage: Schedule S19B (Doc Ref. GCOB-4.03.03.3-026)										Rev -										

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S19B-1.000	375	S19A-1	14.411	12.761	S19A-2	13.9	12.25	59.148	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	116	S	F1050
S19B-1.001	375	S19A-2	13.9	12.25	S19A-3	13.2	11.55	90.625	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	129	S	F1050
S19B-1.002	375	S19A-3	13.2	11.55	S19A-4	12.5	11.15	89.214	CD			1.28	0.98	1.13	1.65	1.35	1.50	0-2	223	S	F1050
S19B-1.003	450	S19A-4	12.5	11.075	S19A-6	12.5	10.775	71.414	CD			0.98	1.28	1.13	1.43	1.73	1.58	0-2	238	S	F1050
S19B-2.000	225	S19A-5	13.6	12.1	S19A-6	12.5	11	86.756	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	79	S	F1050
S19B-1.004	450	S19A-6	12.5	10.775	S19A-8	12.7	10.74	13.894	CD			1.28	1.51	1.39	1.73	1.96	1.84	0-2	397	S	F1050
S19B-3.000	225	S19A-7	14.017	12.5	S19A-8	12.7	11.2	90.628	SD			1.29	1.28	1.28	1.52	1.50	1.51	0-2	70	N/A	F1050
S19B-1.005	450	S19A-8	12.7	10.74	S19A-14	12.8	10.71	12	CD			1.51	1.64	1.58	1.96	2.09	2.03	2-4	400	S	C1050
S19B-4.000	225	S19A-9	14.3	12.8	S19A-14	12.8	11.3	94.31	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	63	S	F1050
S19B-5.000	300	S19A-10	14.4	12.825	S19A-11	14	12.425	55.656	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	139	S	F1050
S19B-5.001	300	S19A-11	14	12.425	S19A-12	13.2	11.625	92.256	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	115	S	F1050
S19B-5.002	375	S19A-12	13.2	11.55	S19A-13	12.9	11.15	89.239	CD			1.28	1.38	1.33	1.65	1.75	1.70	0-2	223	S	F1050
S19B-5.003	450	S19A-13	12.9	11.075	S19A-14	12.8	10.905	69.326	CD			1.38	1.45	1.41	1.83	1.90	1.86	0-2	408	S	C1050
S19B-1.006	600	S19A-14	12.8	10.56	S19A-20	18.29	10.528	15.402	CD			1.64	7.16	4.40	2.24	7.76	5.00	4-6	481	S	C1200
S19B-6.000	225	S19A-15	13.573	12.373	S19A-16	14.038	12.113	44.033	CD			0.98	1.70	1.34	1.20	1.93	1.56	0-2	169	S	F1050
S19B-6.001	225	S19A-16	14.038	12.113	S19A-20	18.29	11.828	48.666	CD			1.70	6.24	3.97	1.93	6.46	4.19	4-6	171	S	C1050
S19B-7.000	225	S19A-17	19.86	18.36	S19A-19	19.175	17.975	18.551	CD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	48	S	F1050
S19B-8.000	225	S19A-18	21.627	20.127	S19A-19	19.175	17.975	54.964	CD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	26	S	F1050
S19B-7.001	225	S19A-19	19.175	17.151	S19A-20	18.29	17.09	10.364	CD			1.80	0.97	1.39	2.02	1.20	1.61	0-2	170	S	C1050
S19B-1.007	600	S19A-20	18.29	10.528	S19A-21	17.75	10.511	7.629	CD			7.16	6.64	6.90	7.76	7.24	7.50	6-8	449	S	E1500
S19B-1.008	600	S19A-21	17.75	10.511	S19A-22	18	10.311	26.716	CD			6.64	7.09	6.86	7.24	7.69	7.46	6-8	134	S	E1500

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	10+725	10+900	176.578																	
SWC	10+725	11+150	400.787																	
SWC	10+725	11+150	397.157																	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S19B-1.008	Petrol Interceptor Class 1 Bypass Separator NSB 050
			Spillage Containment Area - 25m3
		S19B-1.009	Wetland - Volume of treatment 252.45m3
		S19B-1.010	Infiltration Basin - 1112m3

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S20 (Doc Ref. GCOB-4.03.03.3-027)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S20-1.000	300	S20-1	28.905	27.33	S20-2	28.533	26.86	80.394	SD			1.28	1.37	1.32	1.58	1.67	1.62	0-2	171	N/A	F1050
S20-1.001	300	S20-2	28.533	26.86	S20-3	27.449	25.874	85.744	SD			1.37	1.28	1.32	1.67	1.58	1.62	0-2	87	N/A	C1050
S20-1.002	300	S20-3	27.449	25.874	S20-4	25.543	23.968	90	SD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	47	N/A	F1050
S20-1.003	300	S20-4	25.543	23.968	S20-5	24.088	22.514	46.556	SD			1.28	1.27	1.27	1.58	1.57	1.57	0-2	32	N/A	F1050
S20-1.004	375	S20-5	24.088	22.439	S20-10	24.312	22.389	16.224	CD			1.27	1.55	1.41	1.65	1.92	1.79	0-2	324	S	F1050
S20-2.000	225	S20-6	29.423	27.923	S20-7	29.207	27.183	74.527	CD			1.28	1.80	1.54	1.50	2.02	1.76	0-2	101	S	F1050
S20-2.001	225	S20-7	29.207	27.183	S20-8	28.457	26.433	76.324	CD			1.80	1.80	1.80	2.02	2.02	2.02	2-4	102	S	C1050
S20-2.002	225	S20-8	28.457	26.433	S20-9	26.699	25.199	90	CD			1.80	1.28	1.54	2.02	1.50	1.76	0-2	73	S	C1050
S20-2.003	225	S20-9	26.699	25.199	S20-10	24.312	22.812	69.56	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S20-1.005	450	S20-10	24.312	21.691	S20-14	23.3	21.575	13.123	CD			2.17	1.28	1.72	2.62	1.73	2.17	2-4	113	S	C1050
S20-3.000	225	S20-11	25.966	24.466	S20-12	25.75	24.231	40.179	CD			1.28	1.29	1.28	1.50	1.52	1.51	0-2	171	S	F1050
S20-3.001	225	S20-12	25.75	24.231	S20-13	24.828	23.328	54.373	CD			1.29	1.28	1.28	1.52	1.50	1.51	0-2	60	S	F1050
S20-3.002	225	S20-13	24.828	23.328	S20-14	23.3	21.8	59.671	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	39	S	F1050
S20-1.006	450	S20-14	23.3	18.837	S20-15	20.354	18.629	84.475	CD			4.01	1.28	2.64	4.46	1.73	3.09	2-4	406	S	D1050
S20-1.007	450	S20-15	20.354	17.106	S20-16	18.686	16.961	59.548	CD			2.80	1.28	2.04	3.25	1.73	2.49	2-4	411	S	C1050
S20-1.008	450	S20-16	18.686	16.961	S20-17	17.157	15.757	78.629	CD			1.28	0.95	1.11	1.73	1.40	1.56	0-2	65	S	F1050
S20-1.009	525	S20-17	17.157	15.682	S20-18	16.827	15.552	57.427	CD			0.95	0.75	0.85	1.48	1.28	1.38	0-2	442	S	B
S20-1.010	825	S20-18	16.827	15.252	S20-28	16.6	15.025	35.419	CD	RC		0.75	0.75	0.75	1.58	1.58	1.58	0-2	156	Z	B
S20-4.000	300	S20-19	24	22.425	S20-24	23.308	21.733	78.649	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	114	S	F1050
S20-5.000	300	S20-20	28.046	26.621	S20-21	27.776	26.111	86.998	CD			1.13	1.37	1.25	1.43	1.67	1.55	0-2	171	S	F1050
S20-5.001	300	S20-21	27.776	26.111	S20-22	26.493	25.068	90	CD			1.37	1.13	1.25	1.67	1.43	1.55	0-2	86	S	C1050
S20-5.002	300	S20-22	26.493	25.068	S20-23	24.258	22.833	93.799	CD			1.13	1.13	1.13	1.43	1.43	1.43	0-2	42	S	F1050
S20-5.003	375	S20-23	24.258	21.787	S20-24	23.308	21.658	13.291	CD			2.10	1.28	1.69	2.47	1.65	2.06	2-4	103	S	C1050
S20-4.001	375	S20-24	23.308	21.658	S20-25	21.849	20.199	69.366	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	48	S	F1050
S20-4.002	525	S20-25	21.849	17.523	S20-26	19.158	17.358	82.116	CD			3.80	1.28	2.54	4.33	1.80	3.06	2-4	498	S	D1200
S20-4.003	525	S20-26	19.158	15.679	S20-27	17.194	15.442	97.766	CD			2.95	1.23	2.09	3.48	1.75	2.62	2-4	413	S	C1200
S20-4.004	525	S20-27	17.194	15.442	S20-28	16.6	15.325	58.35	CD			1.23	0.75	0.99	1.75	1.28	1.51	0-2	499	S	C1200
S20-1.011	900	S20-28	16.6	15.025	S20-43	16.542	15.01	7.306	CD	RC		0.68	0.63	0.65	1.58	1.53	1.55	0-2	487	Z	B
S20-6.000	225	S20-29	17.365	16.086	S20-30	16.73	15.915	29.146	CD	RC		1.05	0.59	0.82	1.28	0.82	1.05	0-2	170	Z	F1050
S20-6.001	225	S20-30	16.73	15.915	S20-43	16.542	15.685	39.215	CD	RC		0.59	0.63	0.61	0.82	0.86	0.84	0-2	171	Z	F1050
S20-7.000	225	S20-31	27.773	26.273	S20-32	30.485	25.838	73.993	CD			1.28	4.42	2.85	1.50	4.65	3.07	2-4	170	S	F1050
S20-7.001	225	S20-32	30.485	25.838	S20-33	31.042	25.753	14.391	CD			4.42	5.06	4.74	4.65	5.29	4.97	4-6	169	S	D1050
S20-7.002	225	S20-33	31.042	25.753	S20-34	32.504	25.263	83.046	CD			5.06	7.02	6.04	5.29	7.24	6.27	6-8	169	S	D1050
S20-7.003	225	S20-34	32.504	25.263	S20-35	32.166	25.166	16.343	CD			7.02	6.78	6.90	7.24	7.00	7.12	6-8	168	S	E1500
S20-7.004	225	S20-35	32.166	25.166	S20-36	30.987	24.99	29.792	CD			6.78	5.77	6.27	7.00	6.00	6.50	6-8	169	S	E1500
S20-7.005	225	S20-36	30.987	24.99	S20-37	24.696	23.196	88.024	CD			5.77	1.28	3.52	6.00	1.50	3.75	2-4	49	S	D1050
S20-7.006	225	S20-37	24.696	23.196	S20-38	23.517	22.017	90.19	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	76	S	F1050
S20-7.007	225	S20-38	23.517	22.017	S20-39	20.627	19.127	42.591	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	15	S	F1050
S20-7.008	225	S20-39	20.627	19.127	S20-40	19.246	17.746	14.432	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	10	S	F1050
S20-7.009	225	S20-40	19.246	17.746	S20-41	18.3	16.8	12.073	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	13	S	F1050
S20-7.010	225	S20-41	18.3	16.8	S20-42	17.584	16.084	11.706	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	16	S	F1050
S20-7.011	225	S20-42	17.584	16.084	S20-43	16.542	15.685	24.958	CD	RC		1.28	0.63	0.95	1.50	0.86	1.18	0-2	63	Z	F1050
S20-1.012	900	S20-43	16.542	15.01	S20-61	16.538	14.999	5.29	CD	RC		0.63	0.64	0.64	1.53	1.54	1.54	0-2	481	Z	B
S20-8.000	225	S20-44	17.519	16.151	S20-45	16.789	15.931	36.708	CD	RC		1.14	0.63	0.89	1.37	0.86	1.11	0-2	167	Z	F1050
S20-8.001	225	S20-45	16.789	15.931	S20-61	16.538	15.674	42.917	CD	RC		0.63	0.64	0.64	0.86	0.86	0.86	0-2	167	Z	F1050
S20-9.000	225	S20-46	27.716	26.216	S20-47	30.51	25.766	76.962	CD			1.28	4.52	2.90	1.50	4.74	3.12	2-4	171	S	F1050
S20-9.001	225	S20-47	30.51	25.766	S20-48	31.004	25.681	14.402	CD			4.52	5.10	4.81	4.74	5.32	5.03	4-6	169	S	D1050

S20-9.002	225	S20-48	31.004	25.681	S20-49	32.458	25.171	85.892	CD		5.10	7.06	6.08	5.32	7.29	6.31	6-8	168	S	D1050
S20-9.003	225	S20-49	32.458	25.171	S20-50	32.147	25.083	15.095	CD		7.06	6.84	6.95	7.29	7.06	7.18	6-8	172	S	E1500
S20-9.004	225	S20-50	32.147	25.083	S20-51	26.508	24.543	91.614	CD		6.84	1.74	4.29	7.06	1.97	4.51	4-6	170	S	E1500
S20-9.005	225	S20-51	26.508	24.543	S20-57	24.5	21.833	82.804	CD		1.74	2.44	2.09	1.97	2.67	2.32	2-4	31	S	C1050
S20-10.000	225	S20-52	24.5	23	S20-56	24.5	21.878	47.933	CD		1.28	2.40	1.84	1.50	2.62	2.06	2-4	43	S	F1050
S20-11.000	225	S20-53	24.5	23	S20-54	24.5	22.775	38.103	CD		1.28	1.50	1.39	1.50	1.73	1.61	0-2	169	S	F1050
S20-11.001	225	S20-54	24.5	22.775	S20-55	24.5	22.47	52.16	CD		1.50	1.81	1.65	1.73	2.03	1.88	0-2	171	S	C1050
S20-11.002	225	S20-55	24.5	22.47	S20-56	24.5	22.28	32.484	CD		1.81	2.00	1.90	2.03	2.22	2.13	2-4	171	S	C1050
S20-10.001	225	S20-56	24.5	21.878	S20-57	24.5	21.833	7.652	CD		2.40	2.44	2.42	2.62	2.67	2.64	2-4	170	S	C1050
S20-9.006	225	S20-57	24.5	21.833	S20-58	21.956	20.456	61.648	CD		2.44	1.28	1.86	2.67	1.50	2.08	2-4	45	S	C1050
S20-9.007	225	S20-58	21.956	20.456	S20-59	18.656	17.156	37.357	CD		1.28	1.28	1.28	1.50	1.50	1.50	0-2	11	S	F1050
S20-9.008	225	S20-59	18.656	17.156	S20-60	17.718	16.218	11.102	CD		1.28	1.28	1.28	1.50	1.50	1.50	0-2	12	S	F1050
S20-9.009	225	S20-60	17.718	16.218	S20-61	16.538	15.674	26.636	CD	RC	1.28	0.64	0.96	1.50	0.86	1.18	0-2	49	Z	F1050
S20-1.013	900	S20-61	16.538	14.999	S20-62	16.5	14.992	4.072	CD	RC	0.64	0.61	0.62	1.54	1.51	1.52	0-2	582	Z	B
S20-1.014	900	S20-62	16.5	14.992	S20-63	16.5	14.792	28.632	CD	RC	0.61	0.81	0.71	1.51	1.71	1.61	0-2	143	Z	B
S20-1.015	900	S20-63	16.5	14.792	S20-64	16.5	14.742	63.182	CD	RC	0.81	0.86	0.83	1.71	1.76	1.73	0-2	1,264	Z	B

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	11+425	11+850	434.302																
SWC	11+425	11+800	386.247																
SWC	11+700	12+000	310.411																
SWC	11+750	12+000	270.797																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S20-1.012	Petrol Interceptor Class 1 Bypass Separator NSB 075
		S20-1.013	Spillage Containment Area - 25m3 Wetland - Volume of treatment 334.95m3
		S20-1.014	Infiltration Basin - 1928m3

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S21A (Doc Ref. GCOB-4.03.03.3-028)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽²⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type (2),(3)	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type (15)	Chamber Type ⁽¹⁶⁾
S21a-1.000	225	S21a-1	24.007	22.507	S21a-2	23.155	21.655	87.962	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	103	S	F1050
S21a-1.001	225	S21a-2	23.155	21.655	S21a-3	21.643	20.143	74.626	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	S	F1050
S21a-1.002	225	S21a-3	21.643	20.143	S21a-4	20.192	18.692	81.576	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	56	S	F1050
S21a-1.003	300	S21a-4	20.192	18.617	S21a-10	19.258	17.683	40.482	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	43	S	F1050
S21a-2.000	225	S21a-5	25.121	23.621	S21a-6	24.708	23.107	88.069	CD			1.28	1.38	1.33	1.50	1.60	1.55	0-2	171	S	F1050
S21a-2.001	225	S21a-6	24.708	23.107	S21a-7	23.072	21.572	90.458	CD			1.38	1.28	1.33	1.60	1.50	1.55	0-2	59	S	C1050
S21a-2.002	225	S21a-7	23.072	21.572	S21a-8	20.321	18.821	80.569	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S21a-2.003	300	S21a-8	20.321	18.746	S21a-10	19.258	17.683	42.193	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	40	S	F1050
S21a-3.000	375	S21a-9	18.406	16.756	S21a-10	19.258	16.652	34.066	CD			1.28	2.23	1.75	1.65	2.61	2.13	2-4	328	S	F1050
S21a-1.004	675	S21a-10	19.258	16.352	S21a-20	19.707	16.33	10.966	CD			2.23	2.70	2.47	2.91	3.38	3.14	2-4	498	S	C1350
S21a-4.000	150	S21a-11	25.328	23.903	S21a-12	24.958	23.082	83.681	CD			1.28	1.73	1.50	1.43	1.88	1.65	0-2	102	S	F1050
S21a-4.001	150	S21a-12	24.958	23.082	S21a-13	23.414	21.989	89.614	CD			1.73	1.28	1.50	1.88	1.43	1.65	0-2	82	S	C1050
S21a-4.002	150	S21a-13	23.414	21.989	S21a-14	20.544	19.119	84.514	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	29	S	F1050
S21a-4.003	150	S21a-14	20.544	19.119	S21a-20	19.707	18.282	41.624	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	50	S	F1050
S21a-5.000	150	S21a-15	24.22	22.795	S21a-16	23.71	22.121	68.655	CD			1.28	1.44	1.36	1.43	1.59	1.51	0-2	102	S	F1050
S21a-5.001	150	S21a-16	23.71	22.121	S21a-17	22.468	21.043	67.019	CD			1.44	1.28	1.36	1.59	1.43	1.51	0-2	62	S	C1050
S21a-5.002	150	S21a-17	22.468	21.043	S21a-18	21.379	19.954	54.853	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	50	S	F1050
S21a-5.003	150	S21a-18	21.379	19.954	S21a-19	19.98	18.555	76.321	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	55	S	F1050
S21a-5.004	225	S21a-19	19.98	18.48	S21a-20	19.707	18.207	23.46	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	86	S	F1050
S21a-1.005	675	S21a-20	19.707	16.33	S21a-31	20.352	16.171	79.447	CD			2.70	3.51	3.10	3.38	4.18	3.78	2-4	500	S	C1350
S21a-6.000	150	S21a-21	25.3	23.875	S21a-22	24.651	23.226	46.388	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	71	S	F1050
S21a-6.001	150	S21a-22	24.651	23.226	S21a-23	23.694	22.269	69.199	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	72	S	F1050
S21a-6.002	150	S21a-23	23.694	22.269	S21a-24	22.159	20.734	76.273	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	50	S	F1050
S21a-6.003	150	S21a-24	22.159	20.734	S21a-25	21.354	19.929	51.103	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	63	S	F1050
S21a-6.004	225	S21a-25	21.354	19.854	S21a-31	20.352	18.852	46.015	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S21a-7.000	150	S21a-26	26.124	24.699	S21a-27	25.739	24.149	56.038	CD			1.28	1.44	1.36	1.43	1.59	1.51	0-2	102	S	F1050
S21a-7.001	150	S21a-27	25.739	24.149	S21a-28	24.325	22.9	65.537	CD			1.44	1.28	1.36	1.59	1.43	1.51	0-2	52	S	C1050
S21a-7.002	150	S21a-28	24.325	22.9	S21a-29	22.491	21.066	72.839	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	40	S	F1050
S21a-7.003	150	S21a-29	22.491	21.066	S21a-30	20.935	19.51	66.261	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	43	S	F1050
S21a-7.004	225	S21a-30	20.935	19.435	S21a-31	20.352	18.852	26.071	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	S	F1050
S21a-1.006	675	S21a-31	20.352	16.171	S21a-40	20.365	16.15	10.434	CD			3.51	3.54	3.52	4.18	4.22	4.20	4-6	497	S	D1350
S21a-8.000	225	S21a-32	25.97	24.47	S21a-33	25.577	24.077	57.22	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	146	S	F1050
S21a-8.001	225	S21a-33	25.577	24.077	S21a-34	24.057	22.557	70.22	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S21a-8.002	225	S21a-34	24.057	22.557	S21a-35	22.556	21.056	60.232	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	40	S	F1050
S21a-8.003	225	S21a-35	22.556	21.056	S21a-36	21.73	20.23	30.396	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	37	S	F1050
S21a-8.004	225	S21a-36	21.73	20.23	S21a-37	20.646	19.146	50.051	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S21a-8.005	300	S21a-37	20.646	19.071	S21a-40	20.365	18.79	22.677	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	81	S	F1050
S21a-9.000	375	S21a-38	17.306	15.656	S21a-39	19.673	15.442	69.972	CD			1.28	3.86	2.57	1.65	4.23	2.94	2-4	327	S	F1050
S21a-9.001	375	S21a-39	19.673	15.442	S21a-40	20.365	15.304	44.992	CD			3.86	4.69	4.27	4.23	5.06	4.65	4-6	326	S	D1050
S21a-1.007	825	S21a-40	20.365	14.854	S21a-46	20.617	14.809	22.255	CD			4.69	4.98	4.83	5.51	5.81	5.66	4-6	495	S	D1500
S21a-10.000	225	S21a-41	24.876	23.376	S21a-42	24.409	22.886	83.944	CD			1.28	1.30	1.29	1.50	1.52	1.51	0-2	171	S	F1050
S21a-10.001	225	S21a-42	24.409	22.886	S21a-43	23.047	21.547	85.818	CD			1.30	1.28	1.29	1.52	1.50	1.51	0-2	64	S	F1050
S21a-10.002	225	S21a-43	23.047	21.547	S21a-44	21.816	20.316	61.814	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	50	S	F1050
S21a-10.003	225	S21a-44	21.816	20.316	S21a-45	21.133	19.633	45.433	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	67	S	F1050
S21a-10.004	225	S21a-45	21.133	19.633	S21a-46	20.617	19.117	23.888	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	46	S	F1050
S21a-1.008	825	S21a-46	20.617	14.809	S21a-47	17.75	14.789	9.993	CD			4.98	2.14	3.56	5.81	2.96	4.38	4-6	500	S	D1500
S21a-1.009	825	S21a-47	17.75	14.789	S21a-48	17	14.539	16.568	CD			2.14	1.64	1.89	2.96	2.46	2.71	2-4	66	S	C1500
S21a-1.012	225	S21a-50	15.3	11.97	S21a-51	13	11.8	8.178	CD			3.11	0.97	2.04	3.33	1.20	2.27	2-4	48	S	D1050
S21a-1.013	225	S21a-51	13	9	S21a-100	10	8.8	16.371	CD			3.78	0.97	2.38	4.00	1.20	2.60	2-4	82	S	D1050

2. Gully Schedule																
Pipe Ref.	Location ⁽²¹⁾															
	(22)	Chainage														
1.003	LR	12+125														
1.004	LR	12+125														
1.005	LR	12+125														
1.007	LR	12+125														
2.003	LR	12+125														
3.000	LR	12+125														
4.003	LR	12+125														
5.004	LR	12+125														
6.004	LR	12+125														
7.004	LR	12+125														
8.005	LR	12+125														
9.000	LR	12+125														
9.001	LR	12+125														

3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	11+825	12+100	266.848																	
SWC	11+825	12+075	244.164																	
SWC	11+850	12+100	268.119																	
SWC	11+850	12+100	260.675																	
SWC	12+175	12+450	277.009																	
SWC	12+175	12+425	242.963																	
SWC	12+175	12+425	257.809																	
SWC	12+175	12+425	259.096																	

4. Attenuation/Pollution Control																	
Start Chainage	End Chainage	Pipe Number															
		S21a-1.009	Petrol Interceptor Class 1 Bypass Separator NSB 075														
		S21a-1.010	Spillage Containment Area - 25m3														
		S21a-1.011	Wetland - Volume of treatment 203.55m3														
		MH S21A/50	Attenuation Pond - 1568m3 Hydrobrake - Design discharge 5l/s														

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S21B (Doc Ref. GCOB-4.03.03.03.3-029)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S21b-1.000	225	S21b-1	28.908	27.408	S21b-2	28.582	26.973	74.196	SD			1.28	1.38	1.33	1.50	1.61	1.55	0-2	171	N/A	F1050
S21b-1.001	225	S21b-2	28.582	26.973	S21b-3	27.653	26.153	93.277	SD			1.38	1.28	1.33	1.61	1.50	1.55	0-2	114	N/A	C1050
S21b-1.002	375	S21b-3	27.653	26.003	S21b-6	27.34	25.69	17.218	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	55	S	F1050
S21b-2.000	150	S21b-4	29.447	28.022	S21b-5	28.873	27.168	87.02	CD			1.28	1.56	1.42	1.43	1.71	1.57	0-2	102	S	F1050
S21b-2.001	150	S21b-5	28.873	27.168	S21b-6	27.34	25.915	91.184	CD			1.56	1.28	1.42	1.71	1.43	1.57	0-2	73	S	C1050
S21b-1.003	375	S21b-6	27.34	25.69	S21b-7	26.66	25.01	69.93	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	103	S	F1050
S21b-1.004	375	S21b-7	26.66	25.01	S21b-8	26.164	24.514	69.51	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	140	S	F1050
S21b-1.005	375	S21b-8	26.164	24.514	S21b-9	25.597	23.947	79.488	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	140	S	F1050
S21b-1.006	375	S21b-9	25.597	23.947	S21b-10	25.735	23.742	67.195	CD			1.28	1.62	1.45	1.65	1.99	1.82	0-2	328	S	F1050
S21b-1.007	525	S21b-10	25.735	22.81	S21b-12	24.577	22.777	16.393	CD			2.40	1.28	1.84	2.93	1.80	2.36	2-4	497	S	C1050
S21b-3.000	150	S21b-11	24.875	23.45	S21b-12	24.577	23.017	44.055	CD			1.28	1.41	1.34	1.43	1.56	1.49	0-2	102	S	F1050
S21b-1.008	525	S21b-12	24.577	22.642	S21b-13	24.515	22.522	59.834	CD			1.41	1.47	1.44	1.94	1.99	1.96	0-2	499	S	C1200
S21b-1.009	525	S21b-13	24.515	22.522	S21b-14	23.926	22.126	79.19	CD			1.47	1.28	1.37	1.99	1.80	1.90	0-2	200	S	C1200
S21b-1.010	525	S21b-14	23.926	22.126	S21b-15	23.277	21.477	89.329	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	138	S	C1200
S21b-1.011	525	S21b-15	23.277	21.477	S21b-16	22.857	21.057	63.407	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	151	S	C1200
S21b-1.012	525	S21b-16	22.857	21.057	S21b-17	22.368	20.568	64.093	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	131	S	C1200
S21b-1.013	525	S21b-17	22.368	20.568	S21b-54	21.848	20.048	69.452	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	134	S	C1200
S21b-4.000	225	S21b-18	28.057	26.557	S21b-19	27.686	26.061	83.556	CD			1.28	1.40	1.34	1.50	1.63	1.56	0-2	168	S	F1050
S21b-4.001	225	S21b-19	27.686	26.061	S21b-20	27.208	25.531	89.164	CD			1.40	1.45	1.43	1.63	1.68	1.65	0-2	168	S	C1050
S21b-4.002	225	S21b-20	27.208	25.531	S21b-21	26.579	25.002	90.187	CD			1.45	1.35	1.40	1.68	1.58	1.63	0-2	170	S	C1050
S21b-4.003	300	S21b-21	26.579	24.927	S21b-22	25.904	24.329	90.535	CD			1.35	1.28	1.31	1.65	1.58	1.61	0-2	151	S	C1050
S21b-4.004	300	S21b-22	25.904	24.329	S21b-23	25.234	23.659	89.753	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	134	S	F1050
S21b-4.005	525	S21b-23	25.234	21.813	S21b-25	23.589	21.789	11.752	CD			2.90	1.28	2.09	3.42	1.80	2.61	2-4	490	S	C1200
S21b-5.000	150	S21b-24	25.125	23.7	S21b-25	23.589	22.164	53.579	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	35	S	F1050
S21b-4.006	525	S21b-25	23.589	21.789	S21b-26	24.546	21.638	74.992	CD			1.28	2.38	1.83	1.80	2.91	2.35	2-4	497	S	C1200
S21b-4.007	525	S21b-26	24.546	21.638	S21b-27	24.001	21.456	90.747	CD			2.38	2.02	2.20	2.91	2.55	2.73	2-4	499	S	C1200
S21b-4.008	525	S21b-27	24.001	21.456	S21b-28	23.313	21.274	90.664	CD			2.02	1.51	1.77	2.55	2.04	2.29	2-4	498	S	C1200
S21b-4.009	525	S21b-28	23.313	21.274	S21b-29	22.842	21.042	64.69	CD			1.51	1.28	1.39	2.04	1.80	1.92	0-2	279	S	C1200
S21b-4.010	525	S21b-29	22.842	21.042	S21b-30	22.373	20.573	63.271	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	135	S	C1200
S21b-4.011	525	S21b-30	22.373	20.573	S21b-42	21.808	20.008	70.807	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	125	S	C1200
S21b-6.000	150	S21b-31	26.31	24.885	S21b-34	26.294	24.588	30.27	CD			1.28	1.56	1.42	1.43	1.71	1.57	0-2	102	S	F1050
S21b-7.000	150	S21b-32	26.894	25.469	S21b-33	26.608	24.598	88.72	CD			1.28	1.86	1.57	1.43	2.01	1.72	0-2	102	S	F1050
S21b-7.001	450	S21b-33	26.608	24.298	S21b-34	26.294	24.257	16.514	CD			1.86	1.59	1.72	2.31	2.04	2.17	2-4	403	S	C1050
S21b-6.001	450	S21b-34	26.294	24.257	S21b-35	25.477	23.752	100.512	CD			1.59	1.28	1.43	2.04	1.73	1.88	0-2	199	S	C1050
S21b-6.002	450	S21b-35	25.477	23.752	S21b-36	24.977	23.252	54.962	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	110	S	F1050
S21b-6.003	450	S21b-36	24.977	23.252	S21b-37	24.499	22.774	54.927	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	115	S	F1050
S21b-6.004	450	S21b-37	24.499	22.774	S21b-38	23.785	22.06	89.943	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	126	S	F1050
S21b-6.005	450	S21b-38	23.785	22.06	S21b-39	22.951	21.226	89.951	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	108	S	F1050
S21b-6.006	450	S21b-39	22.951	21.226	S21b-40	22.181	20.456	89.906	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	117	S	F1050
S21b-6.007	450	S21b-40	22.181	20.456	S21b-41	21.754	20.029	65.876	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	154	S	F1050
S21b-6.008	450	S21b-41	21.754	20.029	S21b-42	21.808	19.869	65.876	CD			1.28	1.49	1.38	1.73	1.94	1.83	0-2	412	S	F1050
S21b-4.012	1000	S21b-42	21.808	19.319	S21b-54	21.848	19.256	31.621	CD			1.49	1.59	1.54	2.49	2.59	2.54	2-4	502	S	C1500
S21b-8.000	225	S21b-43	26.702	25.202	S21b-46	27.019	24.815	66.41	CD			1.28	1.98	1.63	1.50	2.20	1.85	0-2	172	S	F1050
S21b-9.000	150	S21b-44	26.894	25.469	S21b-45	26.712	24.686	79.788	CD			1.28	1.88	1.58	1.43	2.03	1.73	0-2	102	S	F1050
S21b-9.001	450	S21b-45	26.712	24.386	S21b-46	27.019	24.354	13.013	CD			1.88	2.22	2.05	2.33	2.67	2.50	2-4	407	S	C1050
S21b-8.001	450	S21b-46	27.019	24.354	S21b-47	25.525	23.8	110.931	CD			2.22	1.28	1.75	2.67	1.73	2.20	2-4	200	S	C1050

S21b-8.002	450	S21b-47	25.525	23.8	S21b-48	25.056	23.331	55.057	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	117	S	F1050
S21b-8.003	450	S21b-48	25.056	23.331	S21b-49	24.578	22.853	55.02	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	115	S	F1050
S21b-8.004	450	S21b-49	24.578	22.853	S21b-50	23.768	22.043	90.071	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	111	S	F1050
S21b-8.005	450	S21b-50	23.768	22.043	S21b-51	22.951	21.226	90.095	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	110	S	F1050
S21b-8.006	450	S21b-51	22.951	21.226	S21b-52	22.181	20.456	90.05	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	117	S	F1050
S21b-8.007	450	S21b-52	22.181	20.456	S21b-53	21.765	20.04	66.267	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	159	S	F1050
S21b-8.008	525	S21b-53	21.765	19.965	S21b-54	21.848	19.832	66.267	CD			1.28	1.49	1.38	1.80	2.02	1.91	0-2	498	S	C1050
S21b-1.014	1000	S21b-54	21.848	19.256	S21b-55	22.25	19.244	5.996	CD			1.59	2.01	1.80	2.59	3.01	2.80	2-4	500	S	C1500
S21b-1.015	1000	S21b-55	22.25	19.244	S21b-56	23.5	18.994	16.2	CD			2.01	3.51	2.76	3.01	4.51	3.76	2-4	65	S	C1500

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage ⁽²²⁾																
3. Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	12+025	12+500	464.327																
SWC	12+025	12+475	443.195																
SWC	12+425	13+575	1150.973																
SWC	12+450	13+625	1159.528																
SWC	13+550	13+650	79.788																
SWC	13+550	13+650	88.72																
4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S21b-1.015	Petrol Interceptor Class 1 Bypass Separator NSB 125																
			Spillage Containment Area - 25m3																
		S21b-1.016	Wetland - Vt 723m3																
		S21b-1.017	Infiltration Basin - Volume of Storage 4227m3																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S22A (Doc Ref. GCOB-4.03.03.3-030)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽²⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾	
S22a-1.000	150	S22a-1	19.58	18.455	S22a-2	19.687	18.18	27.62	CD			0.98	1.36	1.17	1.13	1.51	1.32	0-2	100	S	F1050	
S22a-1.001	150	S22a-2	19.687	18.18	S22a-3	19.039	17.2	98.578	CD			1.36	1.69	1.52	1.51	1.84	1.67	0-2	101	S	C1050	
S22a-1.002	150	S22a-3	19.039	17.2	S22a-4	18.385	16.317	89.994	CD			1.69	1.92	1.80	1.84	2.07	1.95	0-2	102	S	C1050	
S22a-1.003	150	S22a-4	18.385	16.317	S22a-8	18.098	16.246	7.2	CD			1.92	1.70	1.81	2.07	1.85	1.96	0-2	101	S	C1050	
S22a-2.000	150	S22a-5	19.61	18.485	S22a-6	19.688	18.24	24.781	CD			0.98	1.30	1.14	1.13	1.45	1.29	0-2	101	S	F1050	
S22a-2.001	150	S22a-6	19.688	18.24	S22a-7	19.039	17.26	98.373	CD			1.30	1.63	1.46	1.45	1.78	1.61	0-2	100	S	F1050	
S22a-2.002	150	S22a-7	19.039	17.26	S22a-8	18.098	16.36	89.994	CD			1.63	1.59	1.61	1.78	1.74	1.76	0-2	100	S	C1050	
S22a-1.004	225	S22a-8	18.098	16.171	S22a-13	18.053	16.153	3.044	CD			1.70	1.68	1.69	1.93	1.90	1.91	0-2	169	S	C1050	
S22a-3.000	150	S22a-9	21.528	20.103	S22a-10	20.407	18.982	61.375	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	55	S	F1050	
S22a-3.001	150	S22a-10	20.407	18.982	S22a-11	19.676	18.099	90	CD			1.28	1.43	1.35	1.43	1.58	1.50	0-2	102	S	F1050	
S22a-3.002	150	S22a-11	19.676	18.099	S22a-12	18.771	17.216	90	CD			1.43	1.41	1.42	1.58	1.56	1.57	0-2	102	S	C1050	
S22a-3.003	225	S22a-12	18.771	17.141	S22a-13	18.053	16.553	90	CD			1.41	1.28	1.34	1.63	1.50	1.57	0-2	153	S	C1050	
S22a-1.005	300	S22a-13	18.053	16.078	S22a-17	17.489	15.883	48.076	CD			1.68	1.31	1.49	1.98	1.61	1.79	0-2	247	S	C1050	
S22a-4.000	150	S22a-14	22.101	20.676	S22a-15	18.421	16.996	89.115	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	24	S	F1050	
S22a-4.001	150	S22a-15	18.421	16.996	S22a-16	17.567	16.142	35.794	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	42	S	F1050	
S22a-4.002	150	S22a-16	17.567	16.142	S22a-17	17.489	16.04	10.315	CD			1.28	1.60	1.30	1.29	1.43	1.45	1.44	0-2	101	S	F1050
S22a-1.006	675	S22a-17	17.489	15.508	S22a-27	17.377	15.467	20.268	CD	RC		1.31	1.24	1.27	1.98	1.91	1.95	0-2	494	Z	C1350	
S22a-5.000	150	S22a-18	26.717	25.292	S22a-19	26.668	25.037	25.93	CD			1.28	1.48	1.38	1.43	1.63	1.53	0-2	102	S	F1050	
S22a-5.001	150	S22a-19	26.668	25.037	S22a-21	26.472	24.92	11.868	CD			1.48	1.40	1.44	1.63	1.55	1.59	0-2	101	S	C1050	
S22a-6.000	150	S22a-20	26.709	25.284	S22a-21	26.472	24.975	31.409	CD			1.28	1.35	1.31	1.43	1.50	1.46	0-2	102	S	F1050	
S22a-5.002	225	S22a-21	26.472	24.845	S22a-22	25.946	24.419	73.072	CD			1.40	1.30	1.35	1.63	1.53	1.58	0-2	172	S	C1050	
S22a-5.003	225	S22a-22	25.946	24.419	S22a-23	24.49	22.99	72.126	CD			1.30	1.28	1.29	1.53	1.50	1.51	0-2	50	S	F1050	
S22a-5.004	225	S22a-23	24.49	22.99	S22a-24	22.065	20.565	75.513	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	S	F1050	
S22a-5.005	300	S22a-24	22.065	17.296	S22a-25	18.536	16.961	82.883	CD			4.47	1.28	2.87	4.77	1.58	3.17	2-4	247	S	D1050	
S22a-5.006	300	S22a-25	18.536	16.961	S22a-26	17.629	16.054	33.021	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	36	S	F1050	
S22a-5.007	300	S22a-26	17.629	16.054	S22a-27	17.377	15.802	10.777	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	43	S	F1050	
S22a-1.007	675	S22a-27	17.377	15.427	S22a-37	17.347	15.4	13.538	CD			1.28	1.27	1.27	1.95	1.95	1.95	0-2	501	S	C1350	
S22a-7.000	150	S22a-28	21.59	20.165	S22a-29	20.462	19.037	61.01	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	54	S	F1050	
S22a-7.001	225	S22a-29	20.462	18.962	S22a-30	19.651	18.151	89.976	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	111	S	F1050	
S22a-7.002	225	S22a-30	19.651	18.151	S22a-31	18.797	17.297	89.89	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	105	S	F1050	
S22a-7.003	225	S22a-31	18.797	17.297	S22a-32	17.944	16.444	90.11	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	106	S	F1050	
S22a-7.004	300	S22a-32	17.944	16.369	S22a-36	17.41	15.835	79.932	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	150	S	F1050	
S22a-8.000	150	S22a-33	20.067	18.642	S22a-34	19.099	17.674	37.65	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	39	S	F1050	
S22a-8.001	225	S22a-34	19.099	17.599	S22a-35	17.763	16.263	80.641	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	60	S	F1050	
S22a-8.002	225	S22a-35	17.763	16.263	S22a-36	17.41	15.801	79.291	CD			1.28	1.38	1.33	1.50	1.61	1.55	0-2	172	S	F1050	
S22a-7.005	675	S22a-36	17.41	15.351	S22a-37	17.347	15.317	17.176	CD			1.38	1.36	1.37	2.06	2.03	2.04	2-4	505	S	C1350	
S22a-1.008	675	S22a-37	17.347	15.317	S22a-38	17.677	15.164	76.444	CD			1.36	1.84	1.60	2.03	2.51	2.27	2-4	500	S	C1350	
S22a-1.009	675	S22a-38	17.677	15.164	S22a-39	18.957	15.005	79.484	CD			1.84	3.28	2.56	2.51	3.95	3.23	2-4	500	S	C1350	
S22a-1.010	1050	S22a-39	18.957	14.63	S22a-46	19.949	14.55	39.771	CD			3.28	4.35	3.81	4.33	5.40	4.86	4-6	497	S	D1500	
S22a-9.000	150	S22a-40	20.909	19.484	S22a-41	19.781	18.356	48.68	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	43	S	F1050	
S22a-9.001	150	S22a-41	19.781	18.356	S22a-46	19.949	18.179	18.035	CD			1.28	1.62	1.45	1.43	1.77	1.60	0-2	102	S	F1050	
S22a-10.000	150	S22a-42	26.394	24.969	S22a-43	25.646	24.221	68.93	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	92	S	F1050	
S22a-10.001	225	S22a-43	25.646	24.146	S22a-44	23.282	21.782	90.38	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	38	S	F1050	
S22a-10.002	225	S22a-44	23.282	21.782	S22a-45	20.136	18.636	90.717	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050	
S22a-10.003	375	S22a-45	20.136	18.486	S22a-46	19.949	18.299	22.086	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	118	S	F1050	
S22a-1.011	1050	S22a-46	19.949	14.55	S22a-50	20.266	14.53	9.888	CD			4.35	4.69	4.52	5.40	5.74	5.57	4-6	494	S	D1500	
S22a-11.000	150	S22a-47	26.373	24.948	S22a-48	25.593	24.065	90	CD			1.28	1.38	1.33	1.43	1.53	1.48	0-2	102	S	F1050	

S22a-11.001	150	S22a-48	25.593	24.065	S22a-49	23.226	21.801	90	CD	1.38	1.28	1.33	1.53	1.43	1.48	0-2	40	S	C1050
S22a-11.002	150	S22a-49	23.226	21.801	S22a-50	20.266	18.841	80.116	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	27	S	F1050
S22a-1.012	1050	S22a-50	20.266	14.53	S22a-82	17.4	14.33	33.795	CD	4.69	2.02	3.35	5.74	3.07	4.40	4-6	169	S	D1500
S22a-12.000	150	S22a-51	44.009	42.584	S22a-52	41.581	40.156	70.976	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	29	S	F1050
S22a-12.001	225	S22a-52	41.581	40.081	S22a-53	38.623	37.123	74.121	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	F1050
S22a-12.002	225	S22a-53	38.623	37.123	S22a-58	34.924	33.424	88.786	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S22a-13.000	150	S22a-54	44.565	43.14	S22a-55	41.817	40.392	83.586	SD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	30	N/A	F1050
S22a-13.001	225	S22a-55	41.817	40.317	S22a-56	38.543	37.043	81.757	SD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	N/A	F1050
S22a-13.002	225	S22a-56	38.543	37.043	S22a-57	35.6	34.1	73.54	SD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	N/A	F1050
S22a-13.003	450	S22a-57	35.6	33.235	S22a-58	34.924	33.199	14.689	CD	1.92	1.28	1.60	2.37	1.73	2.05	2-4	408	S	C1050
S22a-12.003	450	S22a-58	34.924	30.662	S22a-59	32.218	30.493	69.644	CD	3.81	1.28	2.54	4.26	1.73	2.99	2-4	412	S	D1050
S22a-12.004	450	S22a-59	32.218	28.399	S22a-60	29.987	28.262	56.448	CD	3.37	1.28	2.32	3.82	1.73	2.77	2-4	412	S	D1050
S22a-12.005	450	S22a-60	29.987	26.022	S22a-61	27.542	25.817	84.232	CD	3.52	1.28	2.40	3.97	1.73	2.85	2-4	411	S	D1050
S22a-12.006	450	S22a-61	27.542	25.817	S22a-62	26.567	24.842	60.36	CD	1.28	1.28	1.28	1.73	1.73	1.73	0-2	62	S	F1050
S22a-12.007	450	S22a-62	26.567	24.842	S22a-75	26.247	24.522	59.697	CD	1.28	1.28	1.28	1.73	1.73	1.73	0-2	187	S	F1050
S22a-14.000	150	S22a-63	26.887	25.462	S22a-64	26.606	24.684	79.226	CD	1.28	1.77	1.52	1.43	1.92	1.67	0-2	102	S	F1050
S22a-14.001	225	S22a-64	26.606	24.609	S22a-72	26.232	24.199	70.216	CD	1.77	1.81	1.79	2.00	2.03	2.02	2-4	171	S	C1050
S22a-15.000	150	S22a-65	44.98	43.555	S22a-66	42.041	40.616	88.994	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	30	S	F1050
S22a-15.001	150	S22a-66	42.041	40.616	S22a-67	38.8	37.375	82.549	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	25	S	F1050
S22a-15.002	150	S22a-67	38.8	37.375	S22a-68	35.68	34.255	72.171	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	23	S	F1050
S22a-15.003	225	S22a-68	35.68	34.18	S22a-69	31.162	29.662	95.329	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	21	S	F1050
S22a-15.004	225	S22a-69	31.162	29.662	S22a-70	28.11	26.61	89.598	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S22a-15.005	300	S22a-70	28.11	26.535	S22a-71	26.552	24.977	84.376	CD	1.28	1.28	1.28	1.58	1.58	1.58	0-2	54	S	F1050
S22a-15.006	300	S22a-71	26.552	24.977	S22a-72	26.232	24.657	58.975	CD	1.28	1.28	1.28	1.58	1.58	1.58	0-2	184	S	F1050
S22a-14.002	600	S22a-72	26.232	23.824	S22a-75	26.247	23.774	24.9	CD	1.81	1.87	1.84	2.41	2.47	2.44	2-4	498	S	C1200
S22a-16.000	150	S22a-73	26.894	25.469	S22a-74	26.621	24.682	80.199	CD	1.28	1.79	1.53	1.43	1.94	1.68	0-2	102	S	F1050
S22a-16.001	150	S22a-74	26.621	24.682	S22a-75	26.247	23.984	71.081	CD	1.79	2.11	1.95	1.94	2.26	2.10	2-4	102	S	C1050
S22a-12.008	600	S22a-75	26.247	15.259	S22a-76	17.09	15.215	21.937	CD	10.39	1.28	5.83	10.99	1.88	6.43	6-8	499	S	E1500
S22a-12.009	825	S22a-76	17.09	14.99	S22a-80	21.027	14.938	25.906	CD	1.28	5.26	3.27	2.10	6.09	4.09	4-6	498	S	C1500
S22a-17.000	225	S22a-77	26.313	24.813	S22a-78	25.411	23.911	88.836	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	98	S	F1050
S22a-17.001	225	S22a-78	25.411	23.911	S22a-79	22.521	21.021	89.945	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	S	F1050
S22a-17.002	225	S22a-79	22.521	21.021	S22a-80	21.027	19.527	45.586	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	S	F1050
S22a-12.010	825	S22a-80	21.027	14.938	S22a-81	17.1	14.921	8.837	CD	5.26	1.35	3.31	6.09	2.18	4.13	4-6	520	S	D1500
S22a-12.011	825	S22a-81	17.1	14.921	S22a-82	17.4	14.671	27.51	CD	1.35	1.90	1.63	2.18	2.73	2.45	2-4	110	S	C1500
S22a-1.013	1050	S22a-82	17.4	14.33	S22a-83	17.5	14.317	6.659	CD	2.02	2.13	2.08	3.07	3.18	3.13	2-4	512	S	C1500

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage								
S22a-3.000	LR	MLN 13+900								
S22a-3.001	LR	MLN 13+900								
S22a-3.002	LR	MLN 13+900								
S22a-3.003	LR	MLN 13+900								
S22a-1.005	LR	MLN 13+900								
S22a-1.007	LR	MLN 13+900								
S22a-1.008	LR	MLN 13+900								
S22a-1.009	LR	MLN 13+900								
S22a-1.011	LR	MLN 13+900								
S22a-11.000	LR	MLN 13+900								
S22a-11.001	LR	MLN 13+900								
S22a-11.002	LR	MLN 13+900								
S22a-10.000	LR	MLN 13+900								
S22a-10.001	LR	MLN 13+900								
S22a-10.002	LR	MLN 13+900								
S22a-8.000	LR	MLN 13+900								
S22a-8.001	LR	MLN 13+900								
S22a-8.002	LR	MLN 13+900								
S22a-7.000	LR	MLN 13+900								
S22a-7.001	LR	MLN 13+900								
S22a-7.002	LR	MLN 13+900								
S22a-7.003	LR	MLN 13+900								
S22a-7.004	LR	MLN 13+900								

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	13+575	13+850	291.082																	
SWC	13+625	13+650	25.93																	
SWC	13+625	14+000	378.801																	
SWC	13+650	14+350	721.434																	
SWC	13+650	14+350	715.544																	
SWC	13+875	14+000	135.224																	
SWC	14+025	14+150	216.192																	
SWC	14+025	14+150	213.148																	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																			
			Petrol Interceptor Class 1 Bypass Separator NSB 075																		
			Petrol Interceptor Class 1 Bypass Separator NSB 050																		
			Spillage Containment Area - 25m3																		
			Wetland - Volume of treatment 591.15m3																		
			Infiltration Basin - 2953m3																		

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S22B (Doc Ref. GCOB-4.03.03.3-031)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S22b-1.000	225	S22b-1	53.1	51.6	S22b-2	53	51.372	38.661	CD			1.28	1.40	1.34	1.50	1.63	1.56	0-2	170	S	F1050
S22b-1.001	225	S22b-2	53	51.372	S22b-3	51.5	50	51.483	CD			1.40	1.28	1.34	1.63	1.50	1.56	0-2	38	S	C1050
S22b-1.002	225	S22b-3	51.5	47	S22b-6	48.2	46.7	51.388	CD			4.28	1.28	2.78	4.50	1.50	3.00	2-4	171	S	D1050
S22b-2.000	225	S22b-4	46.615	45.115	S22b-5	47.114	44.947	28.466	CD			1.28	1.94	1.61	1.50	2.17	1.83	0-2	169	S	F1050
S22b-2.001	300	S22b-5	47.114	44.872	S22b-6	48.2	44.787	20.868	CD			1.94	3.11	2.53	2.24	3.41	2.83	2-4	246	S	C1050
S22b-1.003	300	S22b-6	48.2	44.787	S22b-8	47.28	44.691	23.681	CD			3.11	2.29	2.70	3.41	2.59	3.00	2-4	247	S	D1050
S22b-3.000	225	S22b-7	46.23	44.73	S22b-8	47.28	44.39	57.234	SD			1.28	2.67	1.97	1.50	2.89	2.20	2-4	168	N/A	F1050
S22b-1.004	375	S22b-8	47.28	44.24	S22b-15	47.074	44.185	17.926	CD			2.67	2.51	2.59	3.04	2.89	2.96	2-4	326	S	C1050
S22b-4.000	450	S22b-9	44.95	43.225	S22b-14	45.858	42.975	61.171	CD			1.28	2.43	1.85	1.73	2.88	2.30	2-4	245	S	F1050
S22b-5.000	450	S22b-10	45.294	43.569	S22b-13	46.116	43.339	56.152	SD			1.27	2.33	1.80	1.72	2.78	2.25	2-4	244	N/A	F1050
S22b-6.000	450	S22b-11	45.791	44.066	S22b-12	46.528	43.866	49.439	CD			1.27	2.21	1.74	1.72	2.66	2.19	2-4	247	S	F1050
S22b-6.001	525	S22b-12	46.528	43.791	S22b-13	46.116	43.759	15.9	CD			2.21	1.83	2.02	2.74	2.36	2.55	2-4	497	S	C1200
S22b-5.001	600	S22b-13	46.116	43.189	S22b-14	45.858	43.16	14.298	CD			2.33	2.10	2.21	2.93	2.70	2.81	2-4	493	S	C1200
S22b-4.001	600	S22b-14	45.858	42.825	S22b-15	47.074	42.69	67.586	CD			2.43	3.78	3.11	3.03	4.38	3.71	2-4	501	S	C1200
S22b-1.005	600	S22b-15	47.074	42.69	S22b-20	48.04	42.534	78.027	CD			3.78	4.91	4.35	4.38	5.51	4.95	4-6	500	S	D1200
S22b-7.000	225	S22b-16	47.421	45.921	S22b-19	48.363	45.034	75.034	SD			1.28	2.66	1.97	1.50	2.88	2.19	2-4	171	N/A	F1050
S22b-8.000	150	S22b-17	48.487	46.987	S22b-18	48.885	46.121	86.759	CD			1.35	2.61	1.98	1.50	2.76	2.13	2-4	100	S	F1050
S22b-8.001	150	S22b-18	48.885	46.121	S22b-19	48.363	45.945	17.943	CD			2.61	2.27	2.44	2.76	2.42	2.59	2-4	102	S	C1050
S22b-7.001	300	S22b-19	48.363	45.406	S22b-20	48.04	45.345	15.064	CD			2.66	2.40	2.53	2.96	2.70	2.83	2-4	247	S	C1050
S22b-1.006	600	S22b-20	48.04	42.534	S22b-25	48.363	42.382	75.782	CD			4.91	5.38	5.14	5.51	5.98	5.74	4-6	499	S	D1200
S22b-9.000	225	S22b-21	48.402	46.902	S22b-24	48.754	46.492	69.702	SD			1.28	2.04	1.66	1.50	2.26	1.88	0-2	170	N/A	F1050
S22b-10.000	225	S22b-22	48.924	47.424	S22b-23	49.292	46.984	74.531	CD			1.28	2.08	1.68	1.50	2.31	1.90	0-2	169	S	F1050
S22b-10.001	225	S22b-23	49.292	46.984	S22b-24	48.754	46.894	15.441	CD			2.08	1.64	1.86	2.31	1.86	2.08	2-4	172	S	C1050
S22b-9.001	300	S22b-24	48.754	46.417	S22b-25	48.363	46.352	16.047	CD			2.04	1.71	1.87	2.34	2.01	2.17	2-4	247	S	C1050
S22b-1.007	600	S22b-25	48.363	42.382	S22b-30	48.116	42.267	57.426	CD			5.38	5.25	5.32	5.98	5.85	5.92	4-6	499	S	D1200
S22b-11.000	225	S22b-26	48.754	47.254	S22b-29	48.648	46.944	52.808	SD			1.28	1.48	1.38	1.50	1.70	1.60	0-2	170	N/A	F1050
S22b-12.000	225	S22b-27	49.303	47.803	S22b-28	49.256	47.495	52.045	CD			1.28	1.54	1.41	1.50	1.76	1.63	0-2	169	S	F1050
S22b-12.001	225	S22b-28	49.256	47.495	S22b-29	48.648	47.148	16.958	CD			1.54	1.28	1.41	1.76	1.50	1.63	0-2	49	S	C1050
S22b-11.001	225	S22b-29	48.648	46.944	S22b-30	48.116	46.616	19.176	CD			1.48	1.28	1.38	1.70	1.50	1.60	0-2	58	S	C1050
S22b-1.008	600	S22b-30	48.116	42.267	S22b-35	47.562	42.139	64.333	CD			5.25	4.82	5.04	5.85	5.42	5.64	4-6	503	S	D1200
S22b-13.000	225	S22b-31	48.639	47.139	S22b-34	48.192	46.692	57.719	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	129	N/A	F1050
S22b-14.000	225	S22b-32	49.247	47.747	S22b-33	48.997	47.447	51.479	CD			1.28	1.33	1.30	1.50	1.55	1.53	0-2	172	S	F1050
S22b-14.001	225	S22b-33	48.997	47.447	S22b-34	48.192	46.692	22.78	CD			1.33	1.28	1.30	1.55	1.50	1.53	0-2	30	S	F1050
S22b-13.001	225	S22b-34	48.192	46.692	S22b-35	47.562	46.062	20.758	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	33	S	F1050
S22b-1.009	600	S22b-35	47.562	42.139	S22b-40	46.373	41.996	71.201	CD			4.82	3.78	4.30	5.42	4.38	4.90	4-6	498	S	D1200
S22b-15.000	225	S22b-36	48.132	46.632	S22b-39	47.227	45.727	64.616	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	71	N/A	F1050
S22b-16.000	225	S22b-37	48.935	47.435	S22b-38	48.131	46.631	65.017	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	81	S	F1050
S22b-16.001	225	S22b-38	48.131	46.631	S22b-39	47.227	45.727	23.1	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	26	S	F1050
S22b-15.001	225	S22b-39	47.227	45.727	S22b-40	46.373	44.873	24.709	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	29	S	F1050
S22b-1.010	600	S22b-40	46.373	41.996	S22b-55	44.3	41.833	81.449	CD			3.78	1.87	2.82	4.38	2.47	3.42	2-4	500	S	D1200
S22b-17.000	225	S22b-41	47.109	45.609	S22b-54	45.26	43.76	83.492	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	45	N/A	F1050
S22b-18.000	225	S22b-42	48.062	46.562	S22b-53	46.31	44.81	89.928	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S22b-19.000	150	S22b-43	47.5	46.075	S22b-44	45.58	44.155	40.678	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	21	S	F1050
S22b-19.001	225	S22b-44	45.58	44.08	S22b-45	44.77	43.27	47.305	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	58	S	F1050
S22b-19.002	225	S22b-45	44.77	43.27	S22b-52	45.64	42.915	60.912	CD			1.28	2.50	1.89	1.50	2.73	2.11	2-4	172	S	F1050
S22b-20.000	150	S22b-46	47.06	45.635	S22b-47	46.27	44.845	19.073	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	24	S	F1050
S22b-20.001	150	S22b-47	46.27	44.845	S22b-48	45.65	44.225	19.338	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	31	S	F1050

S22b-20.002	150	S22b-48	45.65	44.225	S22b-49	45.17	43.745	21.595	CD	1.28	1.28	1.28	1.43	1.43	1.43	0-2	45	S	F1050
S22b-20.003	150	S22b-49	45.17	43.745	S22b-50	44.95	43.454	29.652	CD	1.28	1.35	1.31	1.43	1.50	1.46	0-2	102	S	F1050
S22b-20.004	150	S22b-50	44.95	43.454	S22b-51	45.19	43.031	43.126	CD	1.35	2.01	1.68	1.50	2.16	1.83	0-2	102	S	F1050
S22b-20.005	450	S22b-51	45.19	42.731	S22b-52	45.64	42.695	14.488	CD	2.01	2.50	2.25	2.46	2.95	2.70	2-4	402	S	C1050
S22b-19.003	450	S22b-52	45.64	42.69	S22b-53	46.31	42.632	23.888	CD	2.50	3.23	2.86	2.95	3.68	3.31	2-4	412	S	C1050
S22b-18.001	525	S22b-53	46.31	42.557	S22b-54	45.26	42.509	23.769	CD	3.23	2.23	2.73	3.75	2.75	3.25	2-4	495	S	D1050
S22b-17.001	525	S22b-54	45.26	42.509	S22b-55	44.3	42.458	25.368	CD	2.23	1.32	1.77	2.75	1.84	2.30	2-4	497	S	C1050
S22b-1.011	600	S22b-55	44.3	40.391	S22b-56	42.112	40.237	76.993	CD	3.31	1.28	2.29	3.91	1.88	2.89	2-4	500	S	D1200
S22b-1.012	600	S22b-56	42.112	40.237	S22b-57	40.82	38.945	89.88	CD	1.28	1.28	1.28	1.88	1.88	1.88	0-2	70	S	C1200
S22b-1.013	600	S22b-57	40.82	38.945	S22b-71	40.6	38.725	50.695	CD	1.28	1.28	1.28	1.88	1.88	1.88	0-2	230	S	C1200
S22b-21.000	225	S22b-58	56.7	55.2	S22b-59	56	54.5	86.512	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	124	S	F1050
S22b-21.001	225	S22b-59	56	54.5	S22b-60	55.102	53.602	39.409	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S22b-21.002	225	S22b-60	55.102	53.602	S22b-61	53.884	52.384	90.616	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	74	S	F1050
S22b-21.003	225	S22b-61	53.884	52.384	S22b-62	50.657	49.157	89.771	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S22b-21.004	300	S22b-62	50.657	47.795	S22b-66	49.286	47.711	20.402	CD	2.56	1.28	1.92	2.86	1.58	2.22	2-4	243	S	C1050
S22b-22.000	225	S22b-63	50.646	49.146	S22b-64	49.639	48.139	24.151	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S22b-22.001	225	S22b-64	49.639	48.139	S22b-65	49.447	47.947	24.912	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	130	S	F1050
S22b-22.002	225	S22b-65	49.447	47.947	S22b-66	49.286	47.786	10.827	CD	1.28	1.28	1.28	1.50	1.50	1.50	0-2	67	S	F1050
S22b-21.005	300	S22b-66	49.286	47.711	S22b-67	48.109	46.534	40.969	CD	1.28	1.28	1.28	1.58	1.58	1.58	0-2	35	S	F1050
S22b-21.006	375	S22b-67	48.109	43.936	S22b-68	45.414	43.764	55.352	CD	3.80	1.28	2.54	4.17	1.65	2.91	2-4	322	S	D1050
S22b-21.007	375	S22b-68	45.414	41.317	S22b-69	42.822	41.172	47.104	CD	3.72	1.28	2.50	4.10	1.65	2.87	2-4	325	S	D1050
S22b-21.008	375	S22b-69	42.822	39.563	S22b-70	41.053	39.403	52.122	CD	2.88	1.28	2.08	3.26	1.65	2.45	2-4	326	S	C1050
S22b-21.009	375	S22b-70	41.053	39.403	S22b-71	40.6	38.95	30.903	CD	1.28	1.28	1.28	1.65	1.65	1.65	0-2	68	S	F1050
S22b-1.014	750	S22b-71	40.6	38.575	S22b-72	45	38.325	23.515	CD	1.28	5.93	3.60	2.03	6.68	4.35	4-6	94	S	C1350

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																	
S22b-21.000	LR	MLN 14+350																	
S22b-21.001	LR	MLN 14+350																	
S22b-21.002	LR	MLN 14+350																	
S22b-21.003	LR	MLN 14+350																	
S22b-21.004	LR	MLN 14+350																	
S22b-22.000	LR	MLN 14+350																	

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	14+100	14+950	1000.993																
SWC	14+250	14+350	132.784																
SWC	14+275	14+375	148.895																
SWC	14+400	14+500	89.928																
SWC	14+500	14+550	65.017																
SWC	14+550	14+600	51.479																
SWC	14+600	14+650	52.045																
SWC	14+675	14+750	74.531																
SWC	14+750	14+825	86.759																
SWC	14+850	14+975	141.532																
SWC	14+875	14+900	28.466																
SWC	14+900	14+950	49.439																
SWC	14+850	14+950	100																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S22b-1.014	Petrol Interceptor Class 1 Bypass Separator NSB E100
		S22b-1.015	Spillage Containment Area - 25m3 Wetland - Volume of treatment 414.15m3
		S22b-1.016	Infiltration Basin - 2543m3

RDrainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule S22C1 (Doc Ref. GCOB-4.03.03.03-032)											Rev -										

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S22C1-1.000	225	S22C1-1	49.434	47.934	S22C1-2	46.686	45.198	90.373	CD			1.28	1.26	1.27	1.50	1.49	1.49	0-2	33	S	F1050
S22C1-1.001	300	S22C1-2	46.686	45.123	S22C1-3	45.273	43.719	84.25	CD			1.26	1.25	1.26	1.56	1.55	1.56	0-2	60	S	F1050
S22C1-1.002	300	S22C1-3	45.273	43.719	S22C1-4	43.909	42.334	89.035	CD			1.25	1.28	1.26	1.55	1.58	1.56	0-2	64	S	F1050
S22C1-1.003	300	S22C1-4	43.909	42.334	S22C1-5	42.608	41.165	79.49	CD			1.28	1.14	1.21	1.58	1.44	1.51	0-2	68	S	F1050
S22C1-1.004	375	S22C1-5	42.608	37.99	S22C1-6	39.229	37.715	85.106	CD			4.24	1.14	2.69	4.62	1.51	3.07	2-4	309	S	D1050
S22C1-1.005	450	S22C1-6	39.229	33.345	S22C1-7	34.757	33.126	89.56	CD			5.43	1.18	3.31	5.88	1.63	3.76	2-4	409	S	D1050
S22C1-1.006	450	S22C1-7	34.757	28.841	S22C1-8	30.264	28.622	89.753	CD			5.47	1.19	3.33	5.92	1.64	3.78	2-4	410	S	D1050
S22C1-1.007	450	S22C1-8	30.264	25.942	S22C1-9	27.321	25.722	90.64	CD			3.87	1.15	2.51	4.32	1.60	2.96	2-4	412	S	D1050
S22C1-1.008	450	S22C1-9	27.321	25.722	S22C1-10	26.454	24.818	42.741	CD			1.15	1.19	1.17	1.60	1.64	1.62	0-2	47	S	F1050
S22C1-1.009	525	S22C1-10	26.454	24.743	S22C1-11	26.54	24.713	9.624	CD			1.19	1.30	1.24	1.71	1.83	1.77	0-2	321	S	C1200
S22C1-1.010	525	S22C1-11	26.54	24.713	S22C1-12	26.65	24.563	14.171	CD			1.30	1.56	1.43	1.83	2.09	1.96	0-2	94	S	C1200
S22C1-1.012	225	S22C1-13	27.13	20.892	S22C1-100	27.722	20.806	14.613	CD			6.01	6.69	6.35	6.24	6.92	6.58	6-8	170	S	E1500

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾																		
	(22)	Chainage																	
S22C1-1.000	LR	MLN 14+000																	
S22C1-1.001	LR	MLN 14+000																	
S22C1-1.002	LR	MLN 14+000																	
S22C1-1.003	LR	MLN 14+000																	
S22C1-1.004	LR	MLN 14+000																	
S22C1-1.005	LR	MLN 13+900																	
S22C1-1.006	LR	MLN 13+850																	
S22C1-1.007	LR	MLN 13+750																	
S22C1-1.008	LR	MLN 13+650																	

3. Grassed Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		
		S22C1-1.010	Petrol Interceptor Class 1 Bypass Separator NSB 030																	
			Spillage Containment Area - 25m3																	
		S22C1-1.011	Attenuation Pond - Volume of Storage 786m3																	
		MH S22C1-13	Hydrobrake - Design Discharge 5l/s																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S22C2 (Doc Ref. GCOB-4.03.03.3-033)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S22C2-1.000	225	S22C2-1	42.326	40.826	S22C2-2	41.386	39.886	72.682	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	77	S	F1050
S22C2-1.001	225	S22C2-2	41.386	39.886	S22C2-9	41.174	39.674	35.257	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	166	S	F1050
S22C2-2.000	225	S22C2-3	43.537	42.037	S22C2-4	43.412	41.589	74.781	CD			1.28	1.60	1.44	1.50	1.82	1.66	0-2	167	S	F1050
S22C2-2.001	225	S22C2-4	43.412	41.589	S22C2-5	43.175	41.288	50.313	CD			1.60	1.66	1.63	1.82	1.89	1.86	0-2	167	S	C1050
S22C2-2.002	225	S22C2-5	43.175	41.288	S22C2-6	42.86	41.053	39.199	CD			1.66	1.58	1.62	1.89	1.81	1.85	0-2	167	S	C1050
S22C2-2.003	300	S22C2-6	42.86	40.978	S22C2-7	42.545	40.715	44.672	CD			1.58	1.53	1.56	1.88	1.83	1.86	0-2	170	S	C1050
S22C2-2.004	300	S22C2-7	42.545	40.715	S22C2-8	41.928	40.326	62.529	CD			1.53	1.30	1.42	1.83	1.60	1.72	0-2	161	S	C1050
S22C2-2.005	300	S22C2-8	41.928	40.326	S22C2-9	41.174	39.599	87.539	CD			1.30	1.28	1.29	1.60	1.58	1.59	0-2	120	S	F1050
S22C2-1.002	375	S22C2-9	41.174	39.524	S22C2-10	41.23	39.491	10.007	CD			1.28	1.36	1.32	1.65	1.74	1.69	0-2	303	S	F1050
S22C2-1.003	375	S22C2-10	41.23	39.491	S22C2-11	41.23	39.241	11.652	CD			1.36	1.61	1.49	1.74	1.99	1.86	0-2	47	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage
S22C2-1.001	SR	MLN 13+900
S22C2-1.000	SR	MLN 13+900
S22C2-2.000	SR	MLN 13+900
S22C2-2.001	SR	MLN 13+900
S22C2-2.002	SR	MLN 13+900
S22C2-2.003	SR	MLN 13+900
S22C2-2.004	SR	MLN 13+900
S22C2-2.005	SR	MLN 13+900

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting pipe	Comment

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	Description
		S22C2-1.003	Petrol Interceptor Class 1 Bypass Separator NSB 015
			Spillage Containment Area - 25m3
		S22C2-1.004	Infiltration Basin - 469m3

N6 GCRR Drainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule S22E (Doc Ref. GCOB-4.03.03.3-034)												Rev -									

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S22E-1.000	225	S22E-1	59.049	57.549	S22E-2	59.262	57.169	64.411	CD			1.28	1.87	1.57	1.50	2.09	1.80	0-2	170	S	F1050
S22E-1.001	225	S22E-2	59.262	57.169	S22E-3	58.925	56.987	31.179	CD			1.87	1.71	1.79	2.09	1.94	2.02	2-4	171	S	C1050
S22E-1.002	225	S22E-3	58.925	56.987	S22E-4	58.409	56.737	42.204	CD			1.71	1.45	1.58	1.94	1.67	1.81	0-2	169	S	C1050
S22E-1.003	300	S22E-4	58.409	56.662	S22E-5	58.050	56.475	30.864	CD			1.45	1.28	1.36	1.75	1.58	1.66	0-2	165	S	C1050
S22E-1.004	300	S22E-5	58.050	56.475	S22E-6	57.366	55.791	59.358	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	87	S	F1050
S22E-1.005	300	S22E-6	57.366	55.791	S22E-7	56.665	55.090	54.840	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	78	S	F1050
S22E-1.006	300	S22E-7	56.665	55.090	S22E-8	55.500	53.675	70.654	CD			1.28	1.53	1.40	1.58	1.83	1.70	0-2	50	S	F1050
S22E-1.007	300	S22E-8	55.500	48.925	S22E-14	48.200	46.925	65.739	CD			6.28	0.98	3.63	6.58	1.28	3.93	2-4	33	S	E1500
S22E-2.000	225	S22E-9	57.752	56.252	S22E-10	55.600	54.100	81.153	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	38	S	F1050
S22E-2.001	225	S22E-10	55.600	54.100	S22E-11	53.211	51.712	52.010	CD			1.28	1.27	1.27	1.50	1.50	1.50	0-2	22	S	F1050
S22E-2.002	225	S22E-11	53.211	48.774	S22E-12	49.931	48.431	58.733	CD			4.21	1.28	2.74	4.44	1.50	2.97	2-4	171	S	D1050
S22E-2.003	300	S22E-12	49.931	46.566	S22E-13	47.677	46.402	40.533	CD			3.07	0.97	2.02	3.36	1.28	2.32	2-4	247	S	D1050
S22E-2.004	375	S22E-13	47.677	46.327	S22E-14	48.200	46.281	15.063	CD			0.98	1.54	1.26	1.35	1.92	1.63	0-2	327	S	F1050
S22E-1.008	375	S22E-14	48.200	46.281	S22E-15	48.500	46.131	28.742	CD			1.54	1.99	1.77	1.92	2.37	2.14	2-4	192	S	C1050

2. Gully Schedule																				
Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																		
S22E-1.000	LR	14+500																		
S22E-1.001	LR	14+500																		
S22E-1.002	LR	14+450																		
S22E-1.003	LR	14+450																		
S22E-1.004	LR	14+400																		
S22E-1.005	LR	14+400																		

3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	14+250	14+425	232.429																	

4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		
		S22E-1.008	Petrol Interceptor Class 1 Bypass Separator NSB 025																	
			Spillage Containment Area - 25m3																	
		S22E-1.009	Wetland - Volume of treatment 87.3m3																	
		S22E-1.010	Infiltration Basin - 300m3																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S26 (Doc Ref. GCOB-4.03.03.03-035)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S26-1.000	225	S26-1	50.162	48.662	S26-2	49.855	48.192	80.607	CD			1.28	1.44	1.36	1.50	1.66	1.58	0-2	172	S	F1050
S26-1.001	225	S26-2	49.855	48.192	S26-3	48.755	47.255	90.565	CD			1.44	1.28	1.36	1.66	1.50	1.58	0-2	97	S	C1050
S26-1.002	225	S26-3	48.755	47.255	S26-4	47.614	46.114	59.714	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	52	S	F1050
S26-1.003	225	S26-4	47.614	46.114	S26-5	45.979	44.479	59.322	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	S	F1050
S26-1.004	225	S26-5	45.979	44.479	S26-6	43.617	42.118	69.19	CD			1.28	1.27	1.27	1.50	1.50	1.50	0-2	29	S	F1050
S26-1.005	450	S26-6	43.617	41.893	S26-7	43.883	41.858	14.351	CD	RC		1.27	1.58	1.42	1.72	2.03	1.87	0-2	410	Z	F1050
S26-1.006	450	S26-7	43.883	39.967	S26-8	41.524	39.799	68.17	CD			3.47	1.28	2.37	3.92	1.73	2.82	2-4	406	S	D1050
S26-1.007	450	S26-8	41.524	38.775	S26-19	40.428	38.703	29.483	CD			2.30	1.27	1.79	2.75	1.72	2.24	2-4	409	S	C1050
S26-2.000	225	S26-9	42.49	40.99	S26-10	41.96	40.46	39.312	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	74	S	F1050
S26-2.001	225	S26-10	41.96	40.46	S26-11	41.567	40.067	30.723	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	78	S	F1050
S26-2.002	225	S26-11	41.567	40.067	S26-12	40.891	39.391	48.965	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	72	S	F1050
S26-2.003	225	S26-12	40.891	39.391	S26-13	40.516	39.016	39.294	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	105	S	F1050
S26-2.004	225	S26-13	40.516	39.016	S26-18	40.491	38.838	30.137	CD			1.28	1.43	1.35	1.50	1.65	1.58	0-2	169	S	F1050
S26-3.000	225	S26-14	43.48	41.98	S26-15	42.22	40.72	35.087	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S26-3.001	225	S26-15	42.22	40.72	S26-17	40.086	38.586	78.249	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	37	S	F1050
S26-4.000	225	S26-16	41.16	39.66	S26-17	40.086	38.586	67.926	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	63	S	F1050
S26-3.002	450	S26-17	40.086	38.361	S26-18	40.491	38.332	11.8	CD			1.28	1.71	1.49	1.73	2.16	1.94	0-2	407	S	F1050
S26-2.005	450	S26-18	40.491	38.332	S26-19	40.428	38.285	19.284	CD			1.71	1.69	1.70	2.16	2.14	2.15	2-4	410	S	C1050
S26-1.008	450	S26-19	40.428	36.641	S26-20	38.221	36.496	58.96	CD			3.34	1.27	2.31	3.79	1.72	2.76	2-4	407	S	D1050
S26-1.009	450	S26-20	38.221	35.052	S26-21	36.657	34.932	49.121	CD			2.72	1.27	2.00	3.17	1.72	2.45	2-4	409	S	C1050
S26-1.010	450	S26-21	36.657	33.69	S26-22	35.295	33.57	49.101	CD			2.52	1.28	1.90	2.97	1.73	2.35	2-4	409	S	C1050
S26-1.011	450	S26-22	35.295	33.57	S26-23	33.405	31.68	88.329	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	47	S	F1050
S26-1.012	450	S26-23	33.405	31.68	S26-24	32.319	30.594	83.426	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	77	S	F1050
S26-1.013	450	S26-24	32.319	30.594	S26-25	31.867	30.143	93.242	CD			1.28	1.27	1.27	1.73	1.72	1.72	0-2	207	S	F1050
S26-1.014	525	S26-25	31.867	30.068	S26-26	31.824	29.948	58.916	CD			1.27	1.35	1.31	1.80	1.88	1.84	0-2	491	S	C1200
S26-1.015	525	S26-26	31.824	29.948	S26-27	31.73	29.828	58.916	CD			1.35	1.38	1.36	1.88	1.90	1.89	0-2	491	S	C1200
S26-1.016	825	S26-27	31.73	29.528	S26-37	32.254	29.478	15.12	CD			1.38	1.95	1.66	2.20	2.78	2.49	2-4	302	S	C1500
S26-5.000	225	S26-28	48.299	46.799	S26-29	46.011	44.511	100.092	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	N/A	F1050
S26-5.001	225	S26-29	46.011	44.511	S26-30	42.826	41.326	100.261	SD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	N/A	F1050
S26-5.002	300	S26-30	42.826	38.524	S26-31	39.774	38.199	80.174	SD			4.00	1.28	2.64	4.30	1.58	2.94	2-4	247	N/A	D1050
S26-5.003	300	S26-31	39.774	38.199	S26-32	36.881	35.306	88.423	SD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	31	N/A	F1050
S26-5.004	375	S26-32	36.881	35.231	S26-33	35.102	33.452	70.118	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	39	N/A	F1050
S26-5.005	375	S26-33	35.102	33.452	S26-34	33.4	31.751	95.128	SD			1.28	1.27	1.27	1.65	1.65	1.65	0-2	56	N/A	F1050
S26-5.006	450	S26-34	33.4	31.676	S26-35	32.571	30.847	85.127	SD			1.27	1.27	1.27	1.72	1.72	1.72	0-2	103	N/A	F1050
S26-5.007	450	S26-35	32.571	30.847	S26-36	32.367	30.627	90.129	SD			1.27	1.29	1.28	1.72	1.74	1.73	0-2	410	N/A	F1050
S26-5.008	450	S26-36	32.367	30.627	S26-37	32.254	30.417	85.127	SD			1.29	1.39	1.34	1.74	1.84	1.79	0-2	405	N/A	F1050
S26-1.017	900	S26-37	32.254	29.403	S26-60	33.114	29.353	17.756	CD			1.95	2.86	2.41	2.85	3.76	3.31	2-4	355	S	C1500
S26-6.000	225	S26-38	50.176	48.676	S26-39	49.817	48.206	80.126	CD			1.28	1.39	1.33	1.50	1.61	1.56	0-2	170	S	F1050
S26-6.001	225	S26-39	49.817	48.206	S26-40	48.796	47.296	89.492	CD			1.39	1.28	1.33	1.61	1.50	1.56	0-2	98	S	C1050
S26-6.002	225	S26-40	48.796	47.296	S26-41	48.012	46.512	60.291	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	77	S	F1050
S26-6.003	225	S26-41	48.012	46.512	S26-42	46.948	45.448	70.816	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	67	S	F1050
S26-6.004	225	S26-42	46.948	45.448	S26-43	44.496	42.996	102.64	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	42	S	F1050
S26-6.005	225	S26-43	44.496	42.996	S26-44	41.479	39.979	82.455	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	27	S	F1050
S26-6.006	225	S26-44	41.479	39.979	S26-45	38.02	36.427	100.983	CD			1.28	1.37	1.32	1.50	1.59	1.55	0-2	28	S	F1050
S26-6.007	225	S26-45	38.02	36.427	S26-51	37.24	35.74	38.234	CD			1.37	1.28	1.32	1.59	1.50	1.55	0-2	56	S	C1050
S26-7.000	225	S26-46	38.24	36.74	S26-47	38.24	36.66	13.714	CD			1.28	1.36	1.32	1.50	1.58	1.54	0-2	171	S	F1050
S26-7.001	225	S26-47	38.24	36.66	S26-48	38.94	36.412	41.769	CD			1.36	2.30	1.83	1.58	2.53	2.05	2-4	168	S	C1050
S26-7.002	225	S26-48	38.94	36.412	S26-49	38.78	36.146	44.867	CD			2.30	2.41	2.36	2.53	2.63	2.58	2-4	169	S	C1050
S26-7.003	225	S26-49	38.78	36.146	S26-50	37.4	35.812	56.376	CD			2.41	1.36	1.89	2.63	1.59	2.11	2-4	169	S	C1050

S26-7.004	225	S26-50	37.4	35.812	S26-51	37.24	35.685	21.766	CD			1.36	1.33	1.35	1.59	1.56	1.57	0-2	171	S	C1050
S26-6.008	450	S26-51	37.24	35.46	S26-54	37.42	35.436	9.859	CD			1.33	1.53	1.43	1.78	1.98	1.88	0-2	411	S	F1050
S26-8.000	225	S26-52	39.24	37.74	S26-53	38	36.5	38.992	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	S	F1050
S26-8.001	225	S26-53	38	36.5	S26-54	37.42	35.92	38.244	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	66	S	F1050
S26-6.009	450	S26-54	37.42	35.436	S26-56	36.178	34.46	37.031	CD			1.53	1.27	1.40	1.98	1.72	1.85	0-2	38	S	C1050
S26-9.000	225	S26-55	37.904	36.404	S26-56	36.178	34.678	66.91	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	39	S	F1050
S26-6.010	450	S26-56	36.178	34.453	S26-57	34.218	32.493	97.4	CD			1.27	1.28	1.28	1.72	1.73	1.73	0-2	50	S	F1050
S26-6.011	450	S26-57	34.218	32.493	S26-58	33.453	31.728	92.281	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	121	S	F1050
S26-6.012	450	S26-58	33.453	31.728	S26-59	33.22	31.495	92.25	CD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	396	S	F1050
S26-6.013	450	S26-59	33.22	31.495	S26-60	33.114	31.28	87.132	CD			1.28	1.38	1.33	1.73	1.83	1.78	0-2	405	S	F1050
S26-1.018	900	S26-60	33.114	29.353	S26-61	38	29.325	14.05	CD			2.86	7.78	5.32	3.76	8.68	6.22	6-8	502	S	C1500
S26-1.019	900	S26-61	38	29.325	S26-62	36.75	29.075	60.458	CD			7.78	6.78	7.28	8.68	7.68	8.18	8-10	242	S	C1500
S26-1.022	225	S26-64	32.25	28.775	S26-65	31.5	28.285	82.539	CD			3.25	2.99	3.12	3.48	3.22	3.35	2-4	168	S	D1050
S26-1.023	225	S26-65	31.5	28.285	S26-66	30.5	27.84	75.689	CD			2.99	2.44	2.71	3.22	2.66	2.94	2-4	170	S	C1050
S26-1.024	225	S26-66	30.5	27.84	S29-45	30.25	27.28	95.939	CD			2.44	2.75	2.59	2.66	2.97	2.82	2-4	171	S	C1050

2. Gully Schedule																				
Pipe Ref.	Location ⁽²¹⁾ ⁽²²⁾	Chainage																		
3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	MLN 15+750	MLN 16+225	359.398																	
SWC	MLN 15+750	MLN 16+450	803.529																	
SWC	MLN 16+100	MLN 16+750	637.664																	
SWC	MLN 16+225	MLN 16+300	67.911																	
SWC	MLN 16+225	MLN 16+400	188.431																	
SWC	MLN 16+275	MLN 16+375	77.236																	
SWC	MLN 16+325	MLN 16+750	435.973																	
4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		
		S26-1.019	Petrol Interceptor Class 1 Bypass Separator NSB 075																	
			Spillage Containment Area 25m3																	
		S26-1.020	Wetland - Vt 520.8m3																	
		S26-1.021	Attenuation Pond - Volume of Storage 3265m3																	
		MH S26/64	Orifice - Qbar 4.1l/s																	

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S27 (Doc Ref. GCOB-4.03.03.3-036)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S27-1.000	225	S27-1	40.26	38.76	S27-2	39.92	38.217	93.117	CD			1.28	1.48	1.38	1.50	1.70	1.60	0-2	171	S	F1050
S27-1.001	225	S27-2	39.92	38.217	S27-3	38.737	37.237	88.263	CD			1.48	1.28	1.38	1.70	1.50	1.60	0-2	90	S	C1050
S27-1.002	225	S27-3	38.737	37.237	S27-4	36.8	35.3	58.694	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	30	S	F1050
S27-1.003	225	S27-4	36.8	35.3	S27-5	33.1	31.6	80.866	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S27-1.004	225	S27-5	33.1	31.6	S27-9	32.192	30.692	31.941	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	35	S	F1050
S27-2.000	150	S27-6	33.102	31.677	S27-7	32.969	31.126	56.154	CD			1.28	1.69	1.48	1.43	1.84	1.63	0-2	102	S	F1050
S27-2.001	150	S27-7	32.969	31.126	S27-8	32.635	30.149	99.531	CD			1.69	2.34	2.01	1.84	2.49	2.16	2-4	102	S	C1050
S27-2.002	150	S27-8	32.635	30.149	S27-9	32.192	29.178	99.002	CD			2.34	2.86	2.60	2.49	3.01	2.75	2-4	102	S	C1050
S27-1.005	375	S27-9	32.192	28.953	S27-10	31.902	28.845	35.153	CD			2.86	2.68	2.77	3.24	3.06	3.15	2-4	325	S	C1050
S27-1.006	525	S27-10	31.902	28.695	S27-14	32.432	28.669	12.56	CD			2.68	3.24	2.96	3.21	3.76	3.49	2-4	483	S	C1200
S27-3.000	150	S27-11	39.38	37.955	S27-12	38.107	36.682	43.016	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	34	S	F1050
S27-3.001	150	S27-12	38.107	36.682	S27-13	33.929	32.504	95.017	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	23	S	F1050
S27-3.002	225	S27-13	33.929	32.429	S27-14	32.432	30.932	82.97	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	55	S	F1050
S27-1.007	525	S27-14	32.432	28.669	S27-15	31.997	28.565	51.968	CD			3.24	2.91	3.07	3.76	3.43	3.60	2-4	500	S	D1200
S27-1.008	525	S27-15	31.997	28.565	S27-16	30.693	28.394	85.367	CD			2.91	1.77	2.34	3.43	2.30	2.87	2-4	499	S	C1200
S27-1.009	525	S27-16	30.693	28.394	S27-24	29.478	27.678	66.072	CD			1.77	1.28	1.52	2.30	1.80	2.05	2-4	92	S	C1200
S27-4.000	225	S27-17	32.241	30.741	S27-18	32.134	30.318	72.464	SD			1.28	1.59	1.43	1.50	1.82	1.66	0-2	171	N/A	F1050
S27-4.001	375	S27-18	32.134	30.168	S27-19	31.825	29.923	80.145	SD			1.59	1.53	1.56	1.97	1.90	1.93	0-2	327	N/A	C1050
S27-4.002	375	S27-19	31.825	29.923	S27-20	31.412	29.663	83.737	SD			1.53	1.37	1.45	1.90	1.75	1.83	0-2	322	N/A	C1050
S27-4.003	375	S27-20	31.412	29.663	S27-21	30.93	29.28	82.645	SD			1.37	1.28	1.32	1.75	1.65	1.70	0-2	216	N/A	C1050
S27-4.004	375	S27-21	30.93	29.28	S27-22	30.274	28.624	82.762	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	126	N/A	F1050
S27-4.005	375	S27-22	30.274	28.624	S27-23	29.739	28.089	58.026	SD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	108	N/A	F1050
S27-4.006	525	S27-23	29.739	27.939	S27-24	29.478	27.678	29.962	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	115	S	C1200
S27-1.010	525	S27-24	29.478	27.678	S27-25	28.251	26.451	90.05	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	73	S	C1200
S27-1.011	525	S27-25	28.251	26.451	S27-47	27.255	25.455	93.036	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	93	S	C1200
S27-5.000	300	S27-26	31.715	30.14	S27-27	31.403	29.76	94	CD			1.28	1.34	1.31	1.58	1.64	1.61	0-2	247	S	F1050
S27-5.001	300	S27-27	31.403	29.76	S27-28	31.125	29.45	75.57	CD			1.34	1.38	1.36	1.64	1.68	1.66	0-2	244	S	F1050
S27-5.002	300	S27-28	31.125	29.45	S27-29	30.648	29.073	89.914	CD			1.38	1.28	1.33	1.68	1.58	1.63	0-2	238	S	C1050
S27-5.003	300	S27-29	30.648	29.073	S27-30	30.029	28.454	89.792	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	145	S	F1050
S27-5.004	300	S27-30	30.029	28.454	S27-31	29.496	27.921	83.433	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	157	S	F1050
S27-5.005	300	S27-31	29.496	27.921	S27-32	28.648	27.073	92.49	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	109	S	F1050
S27-5.006	525	S27-32	28.648	26.604	S27-45	28.376	26.576	13.928	CD			1.52	1.28	1.40	2.04	1.80	1.92	0-2	497	S	C1200
S27-6.000	225	S27-33	39.945	38.445	S27-34	39.31	37.81	98.176	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	155	S	F1050
S27-6.001	225	S27-34	39.31	37.81	S27-35	38.127	36.627	65.008	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	55	S	F1050
S27-6.002	225	S27-35	38.127	36.627	S27-36	36.464	34.964	52.783	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	32	S	F1050
S27-6.003	225	S27-36	36.464	34.964	S27-37	34.18	32.68	54.658	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S27-6.004	225	S27-37	34.18	32.68	S27-42	31.22	29.72	67.193	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	23	S	F1050
S27-7.000	150	S27-38	39.16	35.575	S27-39	37.2	34.898	68.935	CD			3.43	2.15	2.79	3.58	2.30	2.94	2-4	102	S	D1050
S27-7.001	150	S27-39	37.2	34.898	S27-40	34.8	33.375	63.725	CD			2.15	1.28	1.71	2.30	1.43	1.86	0-2	42	S	C1050
S27-7.002	225	S27-40	34.8	33.3	S27-41	31.945	30.445	70.791	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	25	S	F1050
S27-7.003	225	S27-41	31.945	30.445	S27-42	31.22	29.72	21.871	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	30	S	F1050
S27-6.005	300	S27-42	31.22	29.645	S27-43	29.427	27.852	65.507	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	37	S	F1050
S27-6.006	375	S27-43	29.427	27.777	S27-44	28.649	26.999	56.42	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	73	S	F1050
S27-6.007	375	S27-44	28.649	26.999	S27-45	28.376	26.726	36.421	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	133	S	F1050
S27-5.007	525	S27-45	28.376	26.576	S27-46	27.655	25.855	90.019	CD			1.28	1.28	1.28	1.80	1.80	1.80	0-2	125	S	C1200
S27-5.008	600	S27-46	27.655	25.78	S27-47	27.255	25.38	41.294	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	103	S	C1200
S27-1.012	600	S27-47	27.255	25.38	S27-48	26.134	24.259	96.784	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	86	S	C1200
S27-1.013	600	S27-48	26.134	24.259	S27-49	25.444	23.569	57.222	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	83	S	C1200
S27-1.014	600	S27-49	25.444	23.569	S27-50	24.75	22.875	57.222	CD			1.28	1.28	1.28	1.88	1.88	1.88	0-2	82	S	C1200

S27-1.015	600	S27-50	24.75	22.875	S27-100	24.369	21.955	71.083	CD			1.28	1.81	1.54	1.88	2.41	2.14	2-4	77	S	C1200
S27-8.000	375	S27-51	27.573	25.923	S27-52	27.25	25.6	89.993	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	279	S	F1050
S27-8.001	375	S27-52	27.25	25.6	S27-53	25.614	23.964	78.852	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	48	S	F1050
S27-8.002	375	S27-53	25.614	23.964	S27-101	24.8	23.474	65.849	CD			1.28	0.95	1.11	1.65	1.33	1.49	0-2	134	S	F1050

2. Gully Schedule																				
Pipe Ref.	Location ⁽²¹⁾		Chainage																	
		⁽²²⁾																		
3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	MLN 16+675	MLN 17+050	388.034																	
SWC	MLN 16+750	MLN 17+050	289.84																	
SWC	MLN 16+750	MLN 17+300	525.199																	
SWC	MLN 16+825	MLN 17+400	586.185																	
SWC	MLN 16+900	MLN 17+125	203.451																	
SWC	MLN 16+850	MLN 17+550	761.502																	
SWC	MLN 17+400	MLN 17+575	168.845																	
4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S29 (Doc Ref. GCOB-4.03.03.03-037)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S29-1.000	150	S29-1	40.592	39.167	S29-2	40.151	38.637	53.671	CD			1.28	1.36	1.32	1.43	1.51	1.47	0-2	101	S	F1050
S29-1.001	225	S29-2	40.151	38.562	S29-3	40.02	38.49	12.298	CD			1.36	1.31	1.33	1.59	1.53	1.56	0-2	171	S	C1050
S29-1.002	225	S29-3	40.02	38.49	S29-4	39.314	37.814	47.673	CD			1.31	1.28	1.29	1.53	1.50	1.52	0-2	71	S	F1050
S29-1.003	225	S29-4	39.314	37.814	S29-5	38.845	37.345	45.78	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	98	S	F1050
S29-1.004	225	S29-5	38.845	37.345	S29-6	38.403	36.903	42.388	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	96	S	F1050
S29-1.005	225	S29-6	38.403	36.903	S29-7	37.808	36.308	42.386	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	71	S	F1050
S29-1.006	225	S29-7	37.808	36.308	S29-8	36.792	35.292	43.213	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	43	S	F1050
S29-1.007	225	S29-8	36.792	32.393	S29-14	33.593	32.093	51.477	CD			4.17	1.28	2.72	4.40	1.50	2.95	2-4	172	S	D1050
S29-2.000	150	S29-9	39.755	38.33	S29-10	39.438	37.814	52.576	CD			1.28	1.47	1.37	1.43	1.62	1.52	0-2	102	S	F1050
S29-2.001	225	S29-10	39.438	37.739	S29-11	38.84	37.34	51.081	CD			1.47	1.28	1.37	1.70	1.50	1.60	0-2	128	S	C1050
S29-2.002	225	S29-11	38.84	37.34	S29-12	37.461	35.961	61.177	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	44	S	F1050
S29-2.003	225	S29-12	37.461	35.961	S29-13	35.875	34.375	47.221	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	30	S	F1050
S29-2.004	525	S29-13	35.875	31.816	S29-14	33.593	31.793	11.368	CD			3.53	1.28	2.40	4.06	1.80	2.93	2-4	494	S	D1200
S29-1.008	525	S29-14	33.593	31.793	S29-20	33.878	31.702	45.1	CD			1.28	1.65	1.46	1.80	2.18	1.99	0-2	496	S	C1200
S29-3.000	225	S29-15	36.523	35.023	S29-16	35.894	34.394	89.864	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	143	S	F1050
S29-3.001	225	S29-16	35.894	34.394	S29-17	35.093	33.593	65.352	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	82	S	F1050
S29-3.002	225	S29-17	35.093	33.593	S29-18	34.245	32.745	46.223	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	55	S	F1050
S29-3.003	225	S29-18	34.245	32.745	S29-19	33.402	31.902	68.082	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	81	S	F1050
S29-3.004	300	S29-19	33.402	31.827	S29-20	33.878	31.626	49.53	CD			1.28	1.95	1.61	1.58	2.25	1.91	0-2	246	S	F1050
S29-1.009	900	S29-20	33.878	31.026	S29-37	34.946	30.985	20.486	CD			1.95	3.06	2.51	2.85	3.96	3.41	2-4	500	S	C1500
S29-4.000	225	S29-21	36.5	35	S29-22	35.818	34.318	89.871	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	132	S	F1050
S29-4.001	225	S29-22	35.818	34.318	S29-23	34.84	33.34	74.967	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	77	S	F1050
S29-4.002	225	S29-23	34.84	33.34	S29-24	34.38	32.88	55.206	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	120	S	F1050
S29-4.003	375	S29-24	34.38	32.73	S29-25	34.276	32.626	21.051	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	202	S	F1050
S29-4.004	375	S29-25	34.276	32.626	S29-26	34.297	32.475	49.297	SD			1.28	1.45	1.36	1.65	1.82	1.74	0-2	326	N/A	F1050
S29-4.005	450	S29-26	34.297	32.4	S29-37	34.946	32.304	39.487	SD			1.45	2.19	1.82	1.90	2.64	2.27	2-4	411	N/A	C1050
S29-5.000	150	S29-27	41.1	39.675	S29-28	40.844	39.126	55.954	CD			1.28	1.57	1.42	1.43	1.72	1.57	0-2	102	S	F1050
S29-5.001	225	S29-28	40.844	39.051	S29-29	40.691	38.977	12.697	CD			1.57	1.49	1.53	1.79	1.71	1.75	0-2	172	S	C1050
S29-5.002	225	S29-29	40.691	38.977	S29-30	39.82	38.32	42.938	CD			1.49	1.28	1.38	1.71	1.50	1.61	0-2	65	S	C1050
S29-5.003	225	S29-30	39.82	38.32	S29-35	38.44	36.94	33.143	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S29-6.000	150	S29-31	39.92	38.495	S29-32	40.309	37.997	50.687	SD			1.28	2.16	1.72	1.43	2.31	1.87	0-2	102	N/A	F1050
S29-6.001	225	S29-32	40.309	37.922	S29-33	39.942	37.637	48.896	SD			2.16	2.08	2.12	2.39	2.31	2.35	2-4	172	N/A	C1050
S29-6.002	225	S29-33	39.942	37.637	S29-34	39.229	37.365	45.799	SD			2.08	1.64	1.86	2.31	1.86	2.08	2-4	168	N/A	C1050
S29-6.003	225	S29-34	39.229	37.365	S29-35	38.44	36.94	34.942	SD			1.64	1.28	1.46	1.86	1.50	1.68	0-2	82	N/A	C1050
S29-5.004	300	S29-35	38.44	36.865	S29-36	36.789	35.214	54.109	SD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	33	N/A	F1050
S29-5.005	300	S29-36	36.789	35.214	S29-37	34.946	33.371	56.868	SD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	31	N/A	F1050
S29-1.010	900	S29-37	34.946	30.985	S29-38	35.693	30.935	17.347	CD			3.06	3.86	3.46	3.96	4.76	4.36	4-6	347	S	D1500
S29-1.011	900	S29-38	35.693	30.935	S29-39	37.712	30.87	63.233	CD			3.86	5.94	4.90	4.76	6.84	5.80	4-6	973	S	D1500
S29-1.012	900	S29-39	37.712	28.775	S29-40	30.5	28.625	17.881	CD			8.04	0.98	4.51	8.94	1.88	5.41	4-6	119	S	E1500
S29-1.013	900	S29-40	30.5	28.625	S29-41	30.65	28.55	37.455	CD			0.98	1.20	1.09	1.88	2.10	1.99	0-2	499	S	B
S29-1.014	900	S29-41	30.65	28.55	S29-42	30.584	28.3	21.579	CD			1.20	1.38	1.29	2.10	2.28	2.19	2-4	86	S	C1500
S29-1.017	225	S29-44	30.17	25.916	S29-45	30.34	25.869	8.034	CD			4.03	4.25	4.14	4.25	4.47	4.36	4-6	171	S	D1050
S29-1.018	225	S29-45	30.34	25.869	S29-100	29.48	25.726	24.3	CD			4.25	3.53	3.89	4.47	3.75	4.11	4-6	170	S	D1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
		⁽²²⁾																	

3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	MLN 16+450	MLN 16+500	212.055																	
SWC	MLN 16+650	MLN 16+575	53.671																	
SWC	MLN 16+575	MLN 16+450	637.068																	
SWC	MLN 16+400	MLN 16+400	55.954																	
SWC	MLN 16+450	MLN 16+450	42.938																	
SWC	MLN 16+450	MLN 16+500	220.044																	

4. Attenuation/Pollution Control																			
Start Chainage	End Chainage	Pipe Number																	
		S29-1.014	Petrol Interceptor Class 1 Bypass Separator NSB E075 Spillage Containment Area 25m3																
		S29-1.015	Wetland - Vt 311.1m3																
		S29-1.016	Attenuation Pond - Volume of Storage 1740m3 MH S29/44 Orifice - Design Discharge 5l/s																

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S30 (Doc Ref. GCOB-4.03.03.03-038)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S30-1.000	300	S30-1	46.3	44.8	S30-2	44.335	42.835	76.334	CD			1.20	1.20	1.20	1.50	1.50	1.50	0-2	39	S	F1050
S30-1.001	300	S30-2	44.335	42.835	S30-3	43.263	41.763	69.886	CD			1.20	1.20	1.20	1.50	1.50	1.50	0-2	65	S	F1050
S30-1.002	375	S30-3	43.263	41.688	S30-5	43.001	41.426	49.931	CD			1.20	1.20	1.20	1.58	1.58	1.58	0-2	191	S	F1050
S30-2.000	300	S30-4	43.269	41.694	S30-5	43.001	41.426	35.056	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	131	S	F1050
S30-1.003	750	S30-5	43.001	40.976	S30-7	43.053	40.666	26.656	CD			1.28	1.64	1.46	2.03	2.39	2.21	2-4	86	S	C1350
S30-3.000	300	S30-6	43.111	41.536	S30-7	43.053	41.412	30.534	CD			1.28	1.34	1.31	1.58	1.64	1.61	0-2	246	S	F1050
S30-1.004	750	S30-7	43.053	40.666	S30-8	43.301	40.546	54.448	CD			1.64	2.01	1.82	2.39	2.76	2.57	2-4	454	S	C1350
S30-1.005	750	S30-8	43.301	40.546	S30-9	43.336	40.406	70.107	CD			2.01	2.18	2.09	2.76	2.93	2.84	2-4	501	S	C1350
S30-1.006	750	S30-9	43.336	40.406	S30-19	46.394	40.246	80.123	CD			2.18	5.40	3.79	2.93	6.15	4.54	4-6	501	S	C1350
S30-4.000	300	S30-10	50.17	48.67	S30-11	50.057	48.356	53.754	CD			1.20	1.40	1.30	1.50	1.70	1.60	0-2	171	S	F1050
S30-4.001	300	S30-11	50.057	48.356	S30-12	49.526	47.95	69.575	CD			1.40	1.28	1.34	1.70	1.58	1.64	0-2	171	S	C1050
S30-4.002	300	S30-12	49.526	47.95	S30-13	48.224	46.724	89.632	CD			1.28	1.20	1.24	1.58	1.50	1.54	0-2	73	S	F1050
S30-4.003	300	S30-13	48.224	46.724	S30-19	46.394	44.894	90.143	CD			1.20	1.20	1.20	1.50	1.50	1.50	0-2	49	S	F1050
S30-5.000	300	S30-14	50.169	48.669	S30-15	50.048	48.351	54.446	CD			1.20	1.40	1.30	1.50	1.70	1.60	0-2	171	S	F1050
S30-5.001	300	S30-15	50.048	48.351	S30-16	49.526	47.94	70.4	CD			1.40	1.29	1.34	1.70	1.59	1.64	0-2	171	S	C1050
S30-5.002	300	S30-16	49.526	47.94	S30-17	48.226	46.726	90.355	CD			1.29	1.20	1.24	1.59	1.50	1.54	0-2	74	S	F1050
S30-5.003	300	S30-17	48.226	46.726	S30-18	46.394	44.894	89.861	CD			1.20	1.20	1.20	1.50	1.50	1.50	0-2	49	S	F1050
S30-5.004	600	S30-18	46.394	44.594	S30-19	46.394	44.545	24.6	CD			1.20	1.25	1.22	1.80	1.85	1.82	0-2	502	S	C1200
S30-1.007	750	S30-19	46.394	40.246	S30-25	46.943	40.226	6.647	CD			5.40	5.97	5.68	6.15	6.72	6.43	6-8	332	S	D1500
S30-6.000	225	S30-20	52.733	51.233	S30-21	52.215	50.715	53.457	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	103	S	F1050
S30-6.001	225	S30-21	52.215	50.715	S30-22	51.655	50.155	57.45	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	103	S	F1050
S30-6.002	225	S30-22	51.655	50.155	S30-23	50.527	49.027	57.996	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	51	S	F1050
S30-6.003	225	S30-23	50.527	49.027	S30-24	47.37	45.87	98.367	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	31	S	F1050
S30-6.004	300	S30-24	47.37	45.795	S30-25	46.943	45.455	83.384	CD			1.28	1.19	1.23	1.58	1.49	1.53	0-2	245	S	F1050
S30-1.008	750	S30-25	46.943	40.226	S30-26	46.998	40.054	89.605	CD			5.97	6.19	6.08	6.72	6.94	6.83	6-8	521	S	C1350
S30-1.009	750	S30-26	46.998	40.054	S30-27	45.992	39.885	90	CD			6.19	5.36	5.78	6.94	6.11	6.53	6-8	533	S	E1500
S30-1.010	750	S30-27	45.992	39.885	S30-28	43.463	39.705	90	CD			5.36	3.01	4.18	6.11	3.76	4.93	4-6	500	S	D1350
S30-1.011	750	S30-28	43.463	39.705	S30-29	43.071	39.667	18.803	CD			3.01	2.65	2.83	3.76	3.40	3.58	2-4	495	S	D1350
S30-1.012	750	S30-29	43.071	39.667	S30-30	42.674	39.645	10.725	CD			2.65	2.28	2.47	3.40	3.03	3.22	2-4	488	S	C1350
S30-1.013	750	S30-30	42.674	39.645	S30-31	43.43	39.53	57.753	CD			2.28	3.15	2.71	3.03	3.90	3.46	2-4	502	S	C1350
S30-1.014	750	S30-31	43.43	39.53	S30-32	43.27	39.514	8.162	CD			3.15	3.01	3.08	3.90	3.76	3.83	2-4	510	S	D1500
S30-1.015	750	S30-32	43.27	39.514	S30-33	43	39.395	59.277	CD			3.01	2.86	2.93	3.76	3.61	3.68	2-4	498	S	D1500
S30-1.016	750	S30-33	43	39.395	S30-34	42.5	39.299	48.197	CD			2.86	2.45	2.65	3.61	3.20	3.40	2-4	502	S	C1350
S30-1.017	750	S30-34	42.5	39.299	S30-35	41.75	39.145	76.936	CD			2.45	1.86	2.15	3.20	2.61	2.90	2-4	500	S	C1350
S30-1.018	750	S30-35	41.75	39.145	S30-36	41.406	38.991	77.114	CD			1.86	1.67	1.76	2.61	2.42	2.51	2-4	501	S	C1350
S30-1.019	750	S30-36	41.406	38.991	S30-37	41.337	38.866	62.391	CD			1.67	1.72	1.69	2.42	2.47	2.44	2-4	499	S	C1350
S30-1.020	750	S30-37	41.337	38.866	S30-38	41.5	38.741	62.391	CD			1.72	2.01	1.87	2.47	2.76	2.62	2-4	499	S	C1350
S30-1.021	750	S30-38	41.5	38.741	S30-39	41.375	38.594	73.302	CD			2.01	2.03	2.02	2.76	2.78	2.77	2-4	499	S	C1350
S30-1.022	750	S30-39	41.375	38.594	S30-40	41.976	38.533	30.921	CD			2.03	2.69	2.36	2.78	3.44	3.11	2-4	507	S	C1350
S30-1.023	750	S30-40	41.976	38.533	S30-41	40.3	38.276	45.824	CD			2.69	1.27	1.98	3.44	2.02	2.73	2-4	178	S	C1350
S30-1.024	750	S30-41	40.3	38.123	S30-44	39.977	38.102	10.619	CD			1.43	1.13	1.28	2.18	1.88	2.03	2-4	506	S	C1350
S30-7.000	225	S30-42	41.037	39.612	S30-43	40.418	38.993	56.342	CD			1.20	1.20	1.20	1.43	1.43	1.43	0-2	91	S	F1050
S30-7.001	300	S30-43	40.418	38.918	S30-44	39.977	38.477	33.207	CD			1.20	1.20	1.20	1.50	1.50	1.50	0-2	75	S	F1050
S30-1.025	750	S30-44	39.977	37.11	S30-45	38.86	36.985	62.627	CD			2.12	1.13	1.62	2.87	1.88	2.37	2-4	501	S	C1350
S30-1.026	750	S30-45	38.86	35.845	S30-46	37.603	35.728	58.522	CD			2.27	1.13	1.70	3.02	1.88	2.45	2-4	500	S	C1350
S30-1.027	750	S30-46	37.603	34.982	S30-47	36.76	34.885	48.631	CD			1.87	1.13	1.50	2.62	1.88	2.25	2-4	501	S	C1350
S30-1.028	750	S30-47	36.76	34.885	S30-84	36.547	34.672	40.448	CD			1.13	1.13	1.13	1.88	1.88	1.88	0-2	190	S	C1350

S30-8.000	225	S30-48	39.9	38.475	S30-49	39.563	38.047	43.556	CD			1.20	1.29	1.25	1.43	1.52	1.47	0-2	102	S	F1050
S30-8.001	300	S30-49	39.563	37.972	S30-50	39.575	37.762	51.731	CD			1.29	1.51	1.40	1.59	1.81	1.70	0-2	246	S	F1050
S30-8.002	300	S30-50	39.575	37.762	S30-51	39.761	37.512	60.818	CD			1.51	1.95	1.73	1.81	2.25	2.03	2-4	243	S	C1050
S30-8.003	300	S30-51	39.761	37.512	S30-52	39.606	37.237	66.912	CD			1.95	2.07	2.01	2.25	2.37	2.31	2-4	243	S	C1050
S30-8.004	300	S30-52	39.606	37.237	S30-53	39.197	36.963	67.767	CD			2.07	1.93	2.00	2.37	2.23	2.30	2-4	247	S	C1050
S30-8.005	300	S30-53	39.197	36.963	S30-54	38.711	36.651	77.049	CD			1.93	1.76	1.85	2.23	2.06	2.15	2-4	247	S	C1050
S30-8.006	525	S30-54	38.711	36.426	S30-60	38.164	36.332	46.7	CD			1.76	1.31	1.53	2.29	1.83	2.06	2-4	497	S	C1200
S30-9.000	150	S30-55	42.49	41.065	S30-56	42.33	40.74	33.094	CD			1.28	1.44	1.36	1.43	1.59	1.51	0-2	102	S	F1050
S30-9.001	150	S30-56	42.33	40.74	S30-57	41.454	40.029	33.165	CD			1.44	1.28	1.36	1.59	1.43	1.51	0-2	47	S	C1050
S30-9.002	150	S30-57	41.454	40.029	S30-58	39.796	38.371	34.304	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	21	S	F1050
S30-9.003	225	S30-58	39.796	38.296	S30-59	38.508	37.008	43.342	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	34	S	F1050
S30-9.004	375	S30-59	38.508	36.858	S30-60	38.164	36.514	32.551	CD			1.28	1.28	1.28	1.65	1.65	1.65	0-2	95	S	F1050
S30-8.007	525	S30-60	38.164	36.332	S30-61	37.373	35.648	85.899	CD			1.31	1.20	1.25	1.83	1.72	1.78	0-2	126	S	C1200
S30-8.008	525	S30-61	37.373	35.648	S30-62	37.107	35.382	48.77	CD			1.20	1.20	1.20	1.72	1.73	1.73	0-2	183	S	C1200
S30-8.009	525	S30-62	37.107	35.382	S30-84	36.547	34.822	76.426	CD			1.20	1.20	1.20	1.73	1.72	1.73	0-2	136	S	C1200
S30-10.000	225	S30-63	40.252	38.752	S30-64	40.094	38.362	66.387	SD			1.28	1.51	1.39	1.50	1.73	1.62	0-2	170	N/A	F1050
S30-10.001	225	S30-64	40.094	38.362	S30-65	39.711	37.913	76.906	SD			1.51	1.57	1.54	1.73	1.80	1.77	0-2	171	N/A	C1050
S30-10.002	225	S30-65	39.711	37.913	S30-68	39.328	37.504	70.192	SD			1.57	1.60	1.59	1.80	1.82	1.81	0-2	172	N/A	C1050
S30-11.000	150	S30-66	39.763	38.338	S30-67	39.633	38.081	25.724	CD			1.28	1.40	1.34	1.43	1.55	1.49	0-2	100	S	F1050
S30-11.001	375	S30-67	39.633	37.856	S30-68	39.328	37.677	13.9	CD			1.40	1.28	1.34	1.78	1.65	1.71	0-2	78	S	C1050
S30-10.003	450	S30-68	39.328	37.279	S30-69	39.073	37.196	33.823	SD			1.60	1.43	1.51	2.05	1.88	1.96	0-2	408	N/A	C1050
S30-10.004	450	S30-69	39.073	37.196	S30-70	38.574	36.849	54.186	SD			1.43	1.28	1.35	1.88	1.73	1.80	0-2	156	N/A	C1050
S30-10.005	450	S30-70	38.574	36.849	S30-71	38.008	36.283	60.07	SD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	106	N/A	F1050
S30-10.006	450	S30-71	38.008	36.283	S30-76	37.555	35.831	47.409	SD			1.28	1.27	1.27	1.73	1.72	1.72	0-2	105	N/A	F1050
S30-12.000	150	S30-72	41.09	39.665	S30-73	40.692	39.203	47.099	CD			1.28	1.34	1.31	1.43	1.49	1.46	0-2	102	S	F1050
S30-12.001	150	S30-73	40.692	39.203	S30-74	39.387	37.962	50.208	CD			1.34	1.28	1.31	1.49	1.43	1.46	0-2	40	S	F1050
S30-12.002	150	S30-74	39.387	37.962	S30-75	38.103	36.677	76.789	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	55	S	F1050
S30-12.003	375	S30-75	38.103	35.962	S30-76	37.555	35.905	18.648	CD			1.77	1.28	1.52	2.14	1.65	1.90	0-2	327	S	C1050
S30-10.007	450	S30-76	37.555	35.83	S30-83	37.042	35.317	73.427	SD			1.28	1.28	1.28	1.73	1.73	1.73	0-2	143	N/A	F1050
S30-13.000	150	S30-77	41.19	39.765	S30-78	40.423	38.998	67.04	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	87	S	F1050
S30-13.001	225	S30-78	40.423	38.923	S30-79	39.794	38.294	64.654	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	103	S	F1050
S30-13.002	300	S30-79	39.794	38.219	S30-80	39.501	37.926	19.41	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	66	S	F1050
S30-13.003	300	S30-80	39.501	37.926	S30-81	38.158	36.584	68.125	SD			1.28	1.27	1.27	1.58	1.57	1.57	0-2	51	N/A	F1050
S30-13.004	300	S30-81	38.158	36.584	S30-82	37.269	35.695	49.95	SD			1.27	1.27	1.27	1.57	1.57	1.57	0-2	56	N/A	F1050
S30-13.005	300	S30-82	37.269	35.695	S30-83	37.042	35.468	41.641	SD			1.27	1.27	1.27	1.57	1.57	1.57	0-2	183	N/A	F1050
S30-10.008	900	S30-83	37.042	34.399	S30-84	36.547	34.372	13.5	CD			1.74	1.28	1.51	2.64	2.18	2.41	2-4	500	S	C1500
S30-1.029	900	S30-84	36.547	34.372	S30-85	36.75	34.354	9.063	CD			1.28	1.50	1.39	2.18	2.40	2.29	2-4	503	S	C1500
S30-1.030	900	S30-85	36.75	34.354	S30-86	36.75	34.104	13.258	CD			1.50	1.75	1.62	2.40	2.65	2.52	2-4	53	S	C1500
S30-1.031	900	S30-86	36.75	34.104	S30-87	35	34.054	61.571	CD			1.75	0.05	0.90	2.65	0.95	1.80	0-2	1,231	S	C1500
S30-1.032	1500	S30-87	35	33.454	S30-88	35.5	33.404	80.422	CD			0.05	0.60	0.32	1.55	2.10	1.82	0-2	1,608		C1500
S30-1.033	225	S30-88	35.5	29	S26-65	31.6	28.8	45.298	CD			6.28	2.58	4.43	6.50	2.80	4.65	4-6	226	S	E1500

2. Gully Schedule																
Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage														
S30-1.012	SR	MLN 15+725														
S30-1.013	SR	MLN 15+725														

3. Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	MLN 15+150	MLN 15+200	110.907																	
SWC	MLN 15+200	MLN 15+425	231.207																	
SWC	MLN 15+200	MLN 15+725	538.316																	
SWC	MLN 15+200	MLN 15+725	515.25																	
SWC	MLN 15+425	MLN 15+725	305.062																	
SWC	MLN 15+425	MLN 15+725	305.062																	
SWC	MLN 16+050	MLN 16+450	510.872																	
SWC	MLN 16+050	MLN 16+175	45.298																	
SWC	MLN 16+125	MLN 16+125	56.443																	
SWC	MLN 16+350	MLN 16+450	168.096																	
SWC	MLN 16+400	MLN 16+475	143.905																	
SWC	MLN 16+475	MLN 16+475	25.724																	
SWC	MLN 16+475	MLN 16+800	367.833																	

4. Attenuation/Pollution Control																
Start Chainage	End Chainage	Pipe Number														
		S30-1.030	Petrol Interceptor Class 1 Bypass Separator NSB E075													
			Spillage Containment Area 25m3													
		S30-1.031	Wetland - Vt 687m3													
		S30-1.032	Attenuation Pond - Volume of Storage 4227m3													
		MH S30/88	Orifice - Qbar 5.1l/s													

N6 GCRR Drainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule S31A (Doc Ref. GCOB-4.03.03.03.3-039)												Rev -									

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S31-1.000	150	S31-1	65.947	62.208	S31-2	63.375	61.95	26.274	CD			3.59	1.28	2.43	3.74	1.43	2.58	2-4	102	S	D1050
S31-1.001	150	S31-2	63.375	61.95	S31-6	60.204	58.779	70.061	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	22	K	F1050
S31-2.000	150	S31-3	65.827	62.047	S31-4	63.204	61.779	27.269	FD			3.63	1.28	2.45	3.78	1.43	2.60	2-4	102	K	D1050
S31-2.001	150	S31-4	63.204	59.417	S31-5	60.179	58.754	67.573	FD			3.64	1.28	2.46	3.79	1.43	2.61	2-4	102	K	D1050
S31-2.002	225	S31-5	60.179	58.679	S31-6	60.204	58.633	7.889	CD			1.28	1.35	1.31	1.50	1.57	1.54	0-2	172	S	F1050
S31-1.002	225	S31-6	60.204	58.633	S31-7	61.25	58.598	5.953	CD			1.35	2.43	1.89	1.57	2.65	2.11	2-4	170	S	F1050
S31-1.003	225	S31-7	61.25	58.598	S31-100	58.75	58.409	31.564	CD			2.43	0.12	1.27	2.65	0.34	1.50	0-2	167	S	C1050

2. Gully Schedule																					
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																			

3. Grassed Surface Water Channel Schedule																						
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment			

4. Attenuation/Pollution Control																					
Start Chainage	End Chainage	Pipe Number																			

N6 GCRR Drainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule S31B (Doc Ref. GCOB-4.03.03.03-040)												Rev -									

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S31-3.000	150	S31-8	60.043	58.618	S31-9	59.249	57.824	77.761	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	98	S	F1050
S31-3.001	150	S31-9	59.249	57.824	S31-11	59.082	57.612	18.765	CD			1.28	1.32	1.30	1.43	1.47	1.45	0-2	89	S	F1050
S31-4.000	225	S31-10	58.771	57.271	S31-11	59.082	56.966	30.636	CD			1.28	1.89	1.58	1.50	2.12	1.81	0-2	100	S	F1050
S31-3.002	225	S31-11	59.082	56.966	S31-101	57.5	56.478	81.557	CD			1.89	0.80	1.34	2.12	1.02	1.57	0-2	167	S	C1050

2. Gully Schedule																					
Pipe Ref.	Location ⁽²¹⁾ (22)	Chainage																			
S31-3.000	SR	MLN 7+275																			
S31-3.001	SR	MLN 7+275																			
S31-4.000	SR	MLN 7+275																			

3. Grassed Surface Water Channel Schedule																					
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment		

4. Attenuation/Pollution Control																					
Start Chainage	End Chainage	Pipe Number																			

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
 Drainage: Schedule S31C (Doc Ref. GCOB-4.03.03.3-041) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S31-5.000	150	S31-12	58.772	57.347	S31-13	54.989	53.564	87.809	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	23	K	F1050
S31-5.001	150	S31-13	54.989	50.308	S31-14	51.323	49.898	41.727	FD			4.53	1.28	2.90	4.68	1.43	3.05	2-4	102	K	D1050
S31-5.002	150	S31-14	51.323	49.898	S31-16	48.3	46.875	47.116	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	16	S	F1050
S31-6.000	225	S31-15	46.914	46.014	S31-16	48.3	45.861	76.713	CD			0.67	2.21	1.44	0.90	2.44	1.67	0-2	501	S	F1050
S31-5.003	225	S31-16	48.3	45.861	S31-20	48.28	45.839	6.581	CD			2.21	2.22	2.22	2.44	2.44	2.44	2-4	299	S	C1050
S31-7.000	150	S31-17	58.715	53.198	S31-18	53.688	52.263	95.239	FD			5.37	1.28	3.32	5.52	1.43	3.47	2-4	102	K	D1050
S31-7.001	150	S31-18	53.688	47.584	S31-20	48.28	46.855	74.275	CD			5.95	1.28	3.61	6.10	1.43	3.76	2-4	102	S	D1050
S31-8.000	900	S31-19	47	45.325	S31-20	48.28	45.164	80.692	CD			0.77	2.22	1.50	1.68	3.12	2.40	2-4	501	S	B
S31-5.004	225	S31-20	48.28	44.108	S31-21	45.15	43.76	6.963	CD			3.95	1.17	2.56	4.17	1.39	2.78	2-4	20	S	D1050
S31-5.005	225	S31-21	45.15	43.76	S31-102	45.1	43.735	4.141	CD			1.17	1.14	1.15	1.39	1.37	1.38	0-2	166	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	γ ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number	
		S31-8.000	Attenuation storage provided in oversized pipes
		MH S31/21	Hydrobrake - Design Discharge 5l/s

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
 Drainage: Schedule S32 (Doc Ref. GCOB-4.03.03.03-042) Rev -

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S32-1.000	150	S32-1	60.671	59.246	S32-2	60	58.575	24.147	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	36	K	F1050
S32-1.001	150	S32-2	60	58.575	S32-3	59.786	58.28	30.005	FD			1.28	1.36	1.32	1.43	1.51	1.47	0-2	102	K	F1050
S32-1.002	150	S32-3	59.786	58.28	S32-4	59.458	57.982	30.004	FD			1.36	1.33	1.34	1.51	1.48	1.49	0-2	101	K	C1050
S32-1.003	150	S32-4	59.458	57.982	S32-5	58.546	57.121	70.086	CD			1.33	1.28	1.30	1.48	1.43	1.45	0-2	81	S	F1050
S32-1.004	150	S32-5	58.546	57.121	S32-6	58.164	56.739	37.009	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	97	S	F1050
S32-1.005	150	S32-6	58.164	56.739	S32-7	58.274	56.459	28.518	CD			1.28	1.67	1.47	1.43	1.82	1.62	0-2	102	S	F1050
S32-1.006	150	S32-7	58.274	56.459	S32-8	58.818	56.219	24	CD			1.67	2.45	2.06	1.82	2.60	2.21	2-4	100	S	C1050
S32-1.007	150	S32-8	58.818	56.219	S32-9	59.159	55.989	23	CD			2.45	3.02	2.73	2.60	3.17	2.88	2-4	100	S	C1050
S32-1.008	225	S32-9	59.159	55.914	S32-10	59.192	55.779	23	CD			3.02	3.19	3.10	3.25	3.41	3.33	2-4	170	S	D1050
S32-1.009	225	S32-10	59.192	55.779	S32-11	58.893	55.633	25	CD			3.19	3.04	3.11	3.41	3.26	3.34	2-4	171	S	D1050
S32-1.010	225	S32-11	58.893	55.633	S32-12	56.811	55.219	70	CD			3.04	1.37	2.20	3.26	1.59	2.43	2-4	169	S	D1050
S32-1.011	300	S32-12	56.811	55.144	S32-25	56.725	55.111	8.03	CD			1.37	1.31	1.34	1.67	1.61	1.64	0-2	243	S	C1050
S32-2.000	150	S32-13	60.687	59.262	S32-14	59.979	58.554	20.385	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	29	K	F1050
S32-2.001	150	S32-14	59.979	58.554	S32-15	59.571	58.146	39.942	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	98	K	F1050
S32-2.002	150	S32-15	59.571	58.146	S32-16	59.259	57.834	30.696	FD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	98	K	F1050
S32-2.003	150	S32-16	59.259	57.834	S32-17	58.836	57.24	60.465	CD			1.28	1.45	1.36	1.43	1.60	1.51	0-2	102	S	F1050
S32-2.004	150	S32-17	58.836	57.24	S32-18	58.619	57.02	22.402	CD			1.45	1.45	1.45	1.60	1.60	1.60	0-2	102	S	C1050
S32-2.005	150	S32-18	58.619	57.02	S32-19	58.427	56.808	21.527	CD			1.45	1.47	1.46	1.60	1.62	1.61	0-2	102	S	C1050
S32-2.006	150	S32-19	58.427	56.808	S32-20	58.545	56.545	26.389	CD			1.47	1.85	1.66	1.62	2.00	1.81	0-2	100	S	C1050
S32-2.007	225	S32-20	58.545	56.47	S32-21	59.061	56.327	24.382	CD			1.85	2.51	2.18	2.08	2.73	2.40	2-4	171	S	C1050
S32-2.008	225	S32-21	59.061	56.327	S32-22	59.435	56.177	25.267	CD			2.51	3.03	2.77	2.73	3.26	3.00	2-4	168	S	C1050
S32-2.009	225	S32-22	59.435	56.177	S32-23	59.467	56.039	23.44	CD			3.03	3.20	3.12	3.26	3.43	3.34	2-4	170	S	D1050
S32-2.010	225	S32-23	59.467	56.039	S32-24	59.138	55.889	25.351	CD			3.20	3.02	3.11	3.43	3.25	3.34	2-4	169	S	D1050
S32-2.011	225	S32-24	59.138	55.889	S32-25	56.725	55.225	75.115	CD			3.02	1.28	2.15	3.25	1.50	2.37	2-4	113	S	D1050
S32-1.012	300	S32-25	56.725	54.523	S32-26	56.061	54.486	8.95	CD			1.90	1.28	1.59	2.20	1.58	1.89	0-2	242	S	C1050
S32-1.013	300	S32-26	56.061	53.82	S32-31	55.362	53.787	8.09	CD			1.94	1.28	1.61	2.24	1.58	1.91	0-2	245	S	C1050
S32-3.000	150	S32-27	57.69	56.265	S32-28	56.516	55.091	51.081	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	44	S	F1050
S32-3.001	150	S32-28	56.516	55.091	S32-31	55.362	53.937	21.994	CD			1.28	1.28	1.28	1.43	1.43	1.43	0-2	19	S	F1050
S32-4.000	225	S32-29	57.68	56.18	S32-30	55.8	54.3	68	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	S	F1050
S32-4.001	225	S32-30	55.8	53.911	S32-31	55.362	53.862	8.363	CD			1.66	1.28	1.47	1.89	1.50	1.69	0-2	171	S	C1050
S32-1.014	300	S32-31	55.362	50.594	S32-32	51.84	50.265	81.365	CD			4.47	1.28	2.87	4.77	1.58	3.17	2-4	247	S	D1050
S32-1.015	300	S32-32	51.84	50.265	S32-35	51.261	49.686	21.419	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	37	S	F1050
S32-5.001	300	S32-34	50	48.15	S32-35	51.261	48.096	12.625	CD			1.55	2.87	2.21	1.85	3.17	2.51	2-4	234	S	C1050
S32-1.016	225	S32-35	51.261	48.096	S32-100	51.045	47.96	10.195	CD			2.94	2.86	2.90	3.17	3.09	3.13	2-4	75	S	C1050

2. Gully Schedule																			
Pipe Ref.	Location ⁽²¹⁾		Chainage																
	(22)																		
S32-1.014	SR	MLN 6+350																	
S32-1.015	SR	MLN 6+350																	

3. Grassed & Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
GSWC	MLN 6+500	MLN 6+600	135.613																
GSWC	MLN 6+500	MLN 6+600	130.783																
SWC	MLN 6+450	MLN 6+500	47																
SWC	MLN 6+425	MLN 6+500	73.089																
GSWC	MLN 6+325	MLN 6+450	118																
GSWC	MLN 6+325	MLN 6+425	100.466																
GSWC	MLN 6+275	MLN 6+300	51.081																
GSWC	MLN 6+275	MLN 6+300	68																

4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		
		S32-5.000	Attenuation Pond - Volume of Storage 269m3																	
		MH S32/35	Hydrobrake - Design Discharge 5l/s																	

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
Drainage: Schedule S33 (Doc Ref. GCOB-4.03.03.03.3-043) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S33-1.000	225	S33-1	54.174	53.274	S33-2	53.364	52.464	73.71	CD	RC		0.67	0.67	0.67	0.90	0.90	0.90	0-2	91	Z	F1050
S33-1.001	375	S33-2	53.364	52.314	S33-3	53.11	52.06	32.929	CD	RC		0.67	0.67	0.67	1.05	1.05	1.05	0-2	130	Z	F1050
S33-1.002	375	S33-3	53.11	52.06	S33-10	53.204	51.915	33.734	CD	RC		0.67	0.91	0.79	1.05	1.29	1.17	0-2	233	Z	F1050
S33-2.000	300	S33-4	53.3	52.274	S33-5	53.3	51.97	52.145	CD	RC		0.73	1.03	0.88	1.03	1.33	1.18	0-2	172	Z	F1050
S33-2.001	300	S33-5	53.3	51.97	S33-6	53.3	51.798	29.294	CD	RC		1.03	1.20	1.12	1.33	1.50	1.42	0-2	170	Z	F1050
S33-2.002	300	S33-6	53.3	51.798	S33-9	53.2	51.533	44.934	CD			1.20	1.37	1.28	1.50	1.67	1.58	0-2	170	S	F1050
S33-3.000	225	S33-7	53.3	51.953	S33-8	53.3	51.833	20.497	CD	RC		1.12	1.24	1.18	1.35	1.47	1.41	0-2	171	Z	F1050
S33-3.001	225	S33-8	53.3	51.833	S33-9	53.2	51.798	5.948	CD	RC		1.24	1.18	1.21	1.47	1.40	1.43	0-2	170	Z	F1050
S33-2.003	300	S33-9	53.2	51.533	S33-10	53.204	51.477	12.912	CD			1.37	1.43	1.40	1.67	1.73	1.70	0-2	231	S	C1050
S33-1.003	375	S33-10	53.204	51.402	S33-11	53.303	51.326	17.773	CD			1.43	1.60	1.51	1.80	1.98	1.89	0-2	234	S	C1050
S33-1.004	375	S33-11	53.303	51.326	S33-13	53.38	51.299	6.124	CD			1.60	1.71	1.65	1.98	2.08	2.03	2-4	227	S	C1050
S33-4.000	225	S33-12	53.175	51.675	S33-13	53.38	51.5	40.641	CD			1.28	1.66	1.47	1.50	1.88	1.69	0-2	232	S	F1050
S33-1.005	375	S33-13	53.38	51.299	S33-14	53.181	50.835	107.764	CD			1.71	1.97	1.84	2.08	2.35	2.21	2-4	232	S	C1050
S33-1.006	375	S33-14	53.181	50.835	S33-17	53.105	50.777	13.336	CD			1.97	1.95	1.96	2.35	2.33	2.34	2-4	230	S	C1050
S33-5.000	225	S33-15	52.476	50.976	S33-16	52.873	50.815	26.881	CD			1.28	1.83	1.55	1.50	2.06	1.78	0-2	167	S	F1050
S33-5.001	225	S33-16	52.873	50.815	S33-17	53.105	50.69	20.827	CD			1.83	2.19	2.01	2.06	2.42	2.24	2-4	167	S	C1050
S33-1.007	375	S33-17	53.105	50.54	S33-18	53.009	50.477	14.707	CD			2.19	2.16	2.17	2.57	2.53	2.55	2-4	233	S	C1050
S33-1.008	375	S33-18	53.009	50.477	S33-19	52.641	50.327	34.711	CD			2.16	1.94	2.05	2.53	2.31	2.42	2-4	231	S	C1050
S33-1.009	375	S33-19	52.641	50.327	S33-20	52.407	50.244	19.368	CD			1.94	1.79	1.86	2.31	2.16	2.24	2-4	233	S	C1050
S33-1.010	375	S33-20	52.407	50.244	S33-23	52.417	50.117	10.231	CD			1.79	1.93	1.86	2.16	2.30	2.23	2-4	81	S	C1050
S33-6.000	225	S33-21	51.549	50.6	S33-23	52.417	50.266	55.771	CD	RC		0.72	1.93	1.33	0.95	2.15	1.55	0-2	167	Z	F1050
S33-7.000	1000	S33-22	52.3	49.541	S33-23	52.417	49.491	13.579	CD			1.76	1.93	1.84	2.76	2.93	2.84	2-4	272	S	C1050
S33-1.011	1000	S33-23	52.417	49.491	S33-100	52.256	49.32	10.157	CD			1.93	1.94	1.93	2.93	2.94	2.93	2-4	59	S	C1050

2. Gully Schedule		
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage
S33-1.000	SR	MLN 15+000
S33-1.001	SR	MLN 15+000
S33-1.002	SR	MLN 15+000
S33-1.003	SR	MLN 15+000
S33-2.000	SR	MLN 15+000
S33-1.004	SR	MLN 15+050
S33-1.005	SR	MLN 15+125
S33-3.000	SR	MLN 15+000
S33-3.001	SR	MLN 15+100
S33-1.006	SR	MLN 15+125
S33-1.007	SR	MLN 15+150
S33-1.008	SR	MLN 15+150
S33-1.009	SR	MLN 15+150
S33-4.000	SR	MLN 15+000
S33-5.000	SR	MLN 15+150
S33-5.001	SR	MLN 15+150
S33-1.010	SR	MLN 15+150
S33-6.000	SR	MLN 15+200

3. Grassed Surface Water Channel Schedule																			
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment

4. Attenuation/Pollution Control			
Start Chainage	End Chainage	Pipe Number	
		S33-5.000	Attenuation Tank - Volume of Storage 210m3
		MH S33/16	Hydrobrake - Design Discharge 5l/s

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
Drainage: Schedule S36A (Doc Ref. GCOB-4.03.03.03-044) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S36-1.000	225	S36-1	40.586	39.086	S36-2	39.972	38.472	20.858	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	34	K	C1050
S36-1.001	225	S36-2	39.972	38.472	S36-3	39.303	37.803	32.877	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	49	K	C1050
S36-1.002	225	S36-3	39.303	37.803	S36-4	39.241	37.683	20.013	FD			1.28	1.33	1.30	1.50	1.56	1.53	0-2	167	K	C1050
S36-1.003	225	S36-4	39.241	37.683	S36-7	38.807	37.307	33.630	FD			1.33	1.28	1.30	1.56	1.50	1.53	0-2	89	K	C1050
S36-2.000	225	S36-5	39.451	37.951	S36-6	38.910	37.410	27.263	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	50	K	C1050
S36-2.001	225	S36-6	38.910	37.410	S36-7	38.807	37.307	11.803	FD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	115	K	C1050
S36-1.004	300	S36-7	38.807	37.232	S36-9	38.860	37.202	6.985	FD			1.28	1.36	1.32	1.58	1.66	1.62	0-2	233	K	C1050
S36-3.000	225	S36-8	39.480	37.980	S36-9	38.860	37.277	36.212	FD			1.28	1.36	1.32	1.50	1.58	1.54	0-2	52	K	C1050
S36-1.005	300	S36-9	38.860	37.202	S36-100	37.000	36.502	7.863	CD			1.36	0.20	0.78	1.66	0.50	1.08	0-2	11	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	χ ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	γ ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number

N6 GCRR Drainage Schedules																				
N6 Galway City Ring Road																				
Drainage: Schedule S36B (Doc Ref. GCOB-4.03.03.3-045)											Rev -									

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S36-4.000	225	S36-10	40.773	39.273	S36-11	36.896	35.396	83.98	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	22	S	F1050
S36-4.001	225	S36-11	36.896	35.297	S36-12	36.295	34.795	10.03	FD			1.37	1.28	1.32	1.60	1.50	1.55	0-2	20	K	C1050
S36-4.002	225	S36-12	36.295	34.525	S36-18	35.5	34	10.491	FD			1.55	1.28	1.41	1.77	1.50	1.64	0-2	20	K	C1050
S36-5.000	225	S36-13	40.823	39.323	S36-14	40.228	38.728	21.392	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	S	F1050
S36-5.001	225	S36-14	40.228	38.728	S36-15	37.211	35.711	57.614	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	19	S	F1050
S36-5.002	225	S36-15	37.211	35.711	S36-16	36.021	34.522	20.08	FD			1.28	1.27	1.27	1.50	1.50	1.50	0-2	17	K	F1050
S36-5.003	225	S36-16	36.021	34.522	S36-17	35.688	34.188	5.497	FD			1.27	1.28	1.27	1.50	1.50	1.50	0-2	16	K	F1050
S36-5.004	225	S36-17	35.688	34.188	S36-18	35.5	34	4.5	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	24	S	F1050
S36-4.003	225	S36-18	35.5	34	S36-19	32.4	31.2	46.194	CD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	16	S	F1050
S36-4.004	225	S36-19	32.4	31.2	S36-20	32.3	30.935	44.194	CD			0.97	1.14	1.06	1.20	1.37	1.28	0-2	167	S	F1050
S36-4.005	225	S36-20	32.3	30.935	S36-101	32.4	30.923	2	CD			1.14	1.25	1.20	1.37	1.48	1.42	0-2	167	S	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
SWC	MLN 3+325	MLN 3+325	79.006																	
SWC	MLN 3+325	MLN 3+325	83.98																	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S37 (Doc Ref. GCOB-4.03.03.03-046)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S37-1.000	225	S37-1	36.463	34.963	S37-2	35.783	34.283	35.792	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	53	S	G1050
S37-1.001	225	S37-2	35.783	34.283	S37-3	34.735	33.235	49.652	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	47	S	G1050
S37-1.002	225	S37-3	34.735	33.235	S37-4	33.1	31.6	58.459	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	S	G1050
S37-1.003	1050	S37-4	33.1	30.21	S37-5	32.35	30.025	36.924	CD			1.84	1.28	1.56	2.89	2.33	2.61	2-4	200	S	C1500
S37-1.004	1050	S37-5	32.35	30.025	S37-6	32	30.01	6.274	CD			1.28	0.94	1.11	2.33	1.99	2.16	2-4	418	S	C1500
S37-1.005	1050	S37-6	32	30.01	S37-7	31.75	29.985	10.084	CD			0.94	0.72	0.83	1.99	1.77	1.88	0-2	403	S	A or B
S37-1.006	225	S37-7	31.75	29.985	S37-100	31.75	29.978	1.221	CD			1.54	1.55	1.54	1.77	1.77	1.77	0-2	174	S	C1500

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ⁽²²⁾	Chainage																			
S37-1.000	SR	MLN 4+450																			
S37-1.001	SR	MLN 4+450																			
S37-1.002	SR	MLN 4+450																			
S37-1.003	SR	MLN 4+450																			

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																		
		S37-6	Hydrobrake - Design discharge 5l/s																	

N6 GCRR Drainage Schedules																				
N6 Galway City Ring Road																				
Drainage: Schedule S39 (Doc Ref. GCOB-4.03.03.3-047)										Rev -										

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S39-1.000	225	S39-1	29.327	28.245	S39-2	28.893	27.801	74.771	CD			0.86	0.87	0.86	1.08	1.09	1.09	0-2	168	S	F1050
S39-1.001	225	S39-2	28.893	27.801	S39-100	29.15	27.69	18.492	CD	RC		0.87	1.24	1.05	1.09	1.46	1.28	0-2	167	Z	F1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																		
S39-1.000	SR	MLN 6+400																		
S39-1.001	SR	MLN 6+400																		

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number																		

N6 GCRR Drainage Schedules
N6 Galway City Ring Road
 Drainage: Schedule S40 (Doc Ref. GCOB-4.03.03.03-048) Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S40-1.000	225	S40-1	21.066	18.078	S40-2	17.789	16.289	34.279	CD			2.76	1.28	2.02	2.99	1.50	2.24	2-4	19	S	C1050
S40-1.001	225	S40-2	17.789	16.289	S40-3	13.621	12.121	89.034	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	21	S	F1050
S40-1.002	225	S40-3	13.621	12.121	S40-4	11.895	10.395	48.195	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	28	S	F1050
S40-1.003	225	S40-4	11.895	10.395	S40-5	9.28	8.08	45.331	CD			1.28	0.97	1.13	1.50	1.20	1.35	0-2	20	S	F1050
S40-1.004	225	S40-5	9.28	8.08	S40-6	10.85	8.037	7.353	CD	RC		0.97	2.59	1.78	1.20	2.81	2.01	2-4	171	Z	F1050
S40-1.005	225	S40-6	10.85	8.037	S40-7	10.2	7.887	16.34	CD			2.59	2.09	2.34	2.81	2.31	2.56	2-4	109	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ _{⁽²²⁾}	Chainage

3. Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	χ ⁽²³⁾ (m)	V ⁽²³⁾	W _r ⁽²³⁾	γ ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment
SWC	10+450	10+550	216.839																

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number
		S40-1.005 Petrol Interceptor Class 1 Bypass Separator NSB 004
		Spillage Containment Area - 25m3
		S40-1.006 & S40-1.007 Infiltration Basin - 72m3

N6 GCRR Drainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule S41 (Doc Ref. GCOB-4.03.03.03.3-049)											Rev -										
1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S41-1.000	150	S41-1	35.228	33.803	S41-2	35.559	32.915	89.53	CD			1.28	2.49	1.88	1.43	2.64	2.03	2-4	101	S	F1050
S41-1.001	225	S41-2	35.559	32.84	S41-3	33.866	32.26	98.548	CD			2.49	1.38	1.94	2.72	1.61	2.16	2-4	170	S	C1050
S41-1.002	225	S41-3	33.866	32.26	S41-4	31.556	30.056	49.311	CD			1.38	1.28	1.33	1.61	1.50	1.55	0-2	22	S	C1050
S41-1.003	225	S41-4	31.556	30.056	S41-5	30.732	29.232	29.497	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	36	S	F1050
S41-1.004	225	S41-5	30.732	29.232	S41-100	27.97	26.47	53.748	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	19	S	F1050
2. Gully Schedule																					
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																			
S41-1.000	SR	MLN 13+125																			
S41-1.001	SR	MLN 13+150																			
S41-1.002	SR	MLN 13+150																			
3. Grassed Surface Water Channel Schedule																					
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment		
4. Attenuation/Pollution Control																					
Start Chainage	End Chainage	Pipe Number																			

N6 GCRR Drainage Schedules																					
N6 Galway City Ring Road																					
Drainage: Schedule F19 (Doc Ref. GCOB-4.03.03.03.3-050)												Rev -									

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
F19-1.000	300	F19-1	16.704	15.429	F19-2	16.321	15.046	50.036	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	131	N/A	F1050
F19-1.001	300	F19-2	16.321	15.046	F19-3	15.954	14.679	50.011	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	136	N/A	F1050
F19-1.002	300	F19-3	15.954	14.679	F19-4	15.534	14.259	50.242	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	120	N/A	F1050
F19-1.003	300	F19-4	15.534	14.259	F19-5	15.129	13.854	49.808	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	123	N/A	F1050
F19-1.004	300	F19-5	15.129	13.854	F19-6	14.71	13.435	49.995	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	119	N/A	F1050
F19-1.005	300	F19-6	14.71	13.435	F19-7	14.56	13.285	14.219	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	95	N/A	F1050
F19-1.006	300	F19-7	14.56	13.285	F19-14	14.58	13.162	30.38	SD	RC		0.98	1.12	1.05	1.28	1.42	1.35	0-2	247	Z	F1050
F19-2.000	300	F19-8	16.753	15.478	F19-9	16.347	15.072	48.562	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	120	N/A	F1050
F19-2.001	300	F19-9	16.347	15.072	F19-10	15.932	14.657	50.865	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	123	N/A	F1050
F19-2.002	300	F19-10	15.932	14.657	F19-11	15.52	14.245	49.674	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	121	N/A	F1050
F19-2.003	300	F19-11	15.52	14.245	F19-12	15.113	13.838	49.802	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	122	N/A	F1050
F19-2.004	300	F19-12	15.113	13.838	F19-13	14.722	13.447	48.022	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	123	N/A	F1050
F19-2.005	300	F19-13	14.722	13.447	F19-14	14.58	13.305	13.118	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	92	N/A	F1050
F19-1.007	300	F19-14	14.58	13.162	F19-100	14.5	13.13	7.693	SD			1.12	1.07	1.09	1.42	1.37	1.39	0-2	240	N/A	F1050

2. Gully Schedule																					
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage																			

3. Grassed Surface Water Channel Schedule																					
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment		

4. Attenuation/Pollution Control																					
Start Chainage	End Chainage	Pipe Number																			

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule F24 (Doc Ref. GCOB-4.03.03.03-051)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
F24-1.000	300	F24-1	44.788	43.513	F24-2	44.288	43.013	49.979	SD			0.97	0.97	0.97	1.28	1.28	1.28	0-2	100	N/A	F1050
F24-1.001	300	F24-2	44.288	43.013	F24-3	43.929	42.654	49.848	SD			0.97	0.97	0.97	1.28	1.28	1.28	0-2	139	N/A	F1050
F24-1.002	300	F24-3	43.929	42.654	F24-4	43.581	42.306	49.354	SD			0.97	0.98	0.98	1.28	1.28	1.28	0-2	142	N/A	F1050
F24-1.003	300	F24-4	43.581	42.306	F24-5	43.286	42.011	48.047	SD			0.98	0.97	0.98	1.28	1.28	1.28	0-2	163	N/A	F1050
F24-1.004	300	F24-5	43.286	42.011	F24-6	43.149	41.874	28.839	SD			0.97	0.97	0.97	1.28	1.28	1.28	0-2	211	N/A	F1050
F24-1.005	300	F24-6	43.149	41.874	F24-12	43.331	41.776	24.083	SD	RC		0.97	1.26	1.12	1.28	1.56	1.42	0-2	246	Z	F1050
F24-2.000	300	F24-7	45.584	44.309	F24-8	45.101	43.826	50	SD			0.98	0.97	0.98	1.28	1.28	1.28	0-2	104	N/A	F1050
F24-2.001	300	F24-8	45.101	43.826	F24-9	44.749	43.474	50	SD			0.97	0.98	0.98	1.28	1.28	1.28	0-2	142	N/A	F1050
F24-2.002	300	F24-9	44.749	43.474	F24-10	44.401	43.126	50	SD			0.98	0.98	0.98	1.28	1.28	1.28	0-2	144	N/A	F1050
F24-2.003	300	F24-10	44.401	43.126	F24-11	43.789	42.514	49.998	SD			0.98	0.97	0.98	1.28	1.28	1.28	0-2	82	N/A	F1050
F24-2.004	300	F24-11	43.789	42.514	F24-12	43.331	42.056	29.948	SD			0.97	0.98	0.98	1.28	1.28	1.28	0-2	65	N/A	F1050
F24-1.006	300	F24-12	43.331	41.776	F24-13	43.035	41.678	24.08	CD			1.26	1.06	1.16	1.56	1.36	1.46	0-2	246	S	F1050
F24-1.007	300	F24-13	43.035	40.983	Pumping station	42.24	40.965	4.326	CD			1.75	0.97	1.36	2.05	1.28	1.66	0-2	240	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎	Chainage

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number

N6 GCRR Drainage Schedules																				
N6 Galway City Ring Road																				
Drainage: Schedule F33 (Doc Ref. GCOB-4.03.03.03-052)										Rev -										

1. Pipe Schedule																					
Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
F33-1.000	100	F33-1	53.300	52.300	F33-2	53.070	51.977	25.818	CD			0.90	0.99	0.95	1.00	1.09	1.05	0-2	80	S	B
F33-1.001	100	F33-2	53.070	51.977	F33-3	53.270	51.515	36.931	CD	RC		0.99	1.66	1.32	1.09	1.76	1.42	0-2	80	Z	B
F33-1.002	100	F33-3	53.270	51.515	F33-4	53.120	50.794	57.690	CD			1.66	2.23	1.94	1.76	2.33	2.04	2-4	80	S	C1050
F33-2.000	300	F33-4	52.690	51.050	F33-4	53.120	50.594	15.804	CD			1.34	2.23	1.78	1.64	2.53	2.08	2-4	35	S	C1050
F33-1.003	375	F33-4	53.120	50.519	F33-4	53.120	49.998	78.109	CD			2.23	2.75	2.49	2.60	3.12	2.86	2-4	150	S	C1050
F33-1.004	375	F33-4	53.120	49.998	F33-5	52.980	49.798	30.060	CD			2.75	2.81	2.78	3.12	3.18	3.15	2-4	150	S	C1050
F33-1.005	375	F33-5	52.980	49.798	F33-	52.120	49.140	14.704	CD			2.81	2.61	2.71	3.18	2.98	3.08	2-4	22	S	C1050

2. Gully Schedule																				
Pipe Ref.	Location ⁽²¹⁾ ⁽²²⁾	Chainage																		

3. Grassed Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	

4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Pipe Number																		

N6 GCRR Drainage Schedules														
N6 Galway City Ring Road														
Drainage: Headwall Schedule (Doc Ref. GCOB-4.03.03.03-053) Rev -														
1. Headwall Schedule														
Headwall ⁽¹⁾	Int. Pipe Dia. (mm)	Ext. Pipe Dia. (mm)	d/s IL ⁽¹⁾ (mOD)	Bed IL (mOD)	EGL (mOD)	Total Height (m)	Total Height (mOD)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Check greater than 150mm
S1-100	375	475	5.86	5.42	9.45	4.18	9.6	2,500	2,500	775	1,250	400	600	0.44
S2-100	225	325	31.25	31.07	31.5	0.58	31.65	2,000	2,000	625	1,000	400	500	0.18
S3-100	225	325	36.405	36.18	37	0.97	37.15	2,000	2,000	625	1,000	400	500	0.23
S4A-100	300	400	48.71	48.55	49.01	0.61	49.16	2,000	2,000	700	1,000	400	500	0.16
S4B-100	225	325	45.75	45.38	45.975	0.745	46.125	2,000	2,000	625	1,000	400	500	0.37
S5A-100	300	400	40.543	40.39	42	1.76	42.15	2,000	2,000	700	1,000	400	500	0.15
S5B-100	300	400	34.205	34.05	35.2	1.3	35.35	2,000	2,000	700	1,000	400	500	0.16
S7A-100	225	325	36.625	36.15	37.025	1.025	37.175	2,000	2,000	625	1,000	400	500	0.48
S7B-100	225	325	18.7	18.28	20	1.87	20.15	2,000	2,000	625	1,000	400	500	0.42
S8-100	225	325	19.38	18.85	21	2.3	21.15	2,000	2,000	625	1,000	400	500	0.53
S9-100	225	325	22.038	21.75	24.179	2.579	24.329	2,000	2,000	625	1,000	400	500	0.29
S10-100	225	325	42.555	42.4	43	0.75	43.15	2,000	2,000	625	1,000	400	500	0.16
S12-100	225	325	48.12	47.92	48.35	0.58	48.5	2,000	2,000	625	1,000	400	500	0.20
S13-100	225	325	59.851	59.58	60.5	1.07	60.65	2,000	2,000	625	1,000	400	500	0.27
S14B-100	225	325	20.1	19.95	21	1.2	21.15	2,000	2,000	625	1,000	400	500	0.15
S15-100	225	325	5.945	5.78	6.25	0.62	6.4	2,000	2,000	625	1,000	400	500	0.17
S18A-100	525	625	5.775	3	6.6	3.75	6.75	2,500	2,500	925	1,250	400	600	2.78
S18B-100	825	925	6.81	3	7.85	5	8	3,200	3,200	1,225	1,550	500	700	3.81
S21A-100	225	325	8.8	8.65	10	1.5	10.15	2,000	2,000	625	1,000	400	500	0.15
S31A-100	225	325	58.409	57.95	58.75	0.95	58.9	2,000	2,000	625	1,000	400	500	0.46
S31B-101	225	325	56.478	55.7	57.5	1.95	57.65	2,000	2,000	625	1,000	400	500	0.78
S36A-100	300	400	36.502	36.35	37.000	0.8	37.15	2,000	2,000	700	1,000	400	500	0.15
S36B-101	225	325	30.923	30.75	32.4	1.8	32.55	2,000	2,000	625	1,000	400	500	0.17

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule IW & IDA Schedule (Doc Ref. GCOB-4.03.03.03-054)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
IWF2 - Foul Diversion Coolagh																					
IWF2-1.000	300	IWF2-1	30.5	29.178	IWF2-2	29.25	28	42.758	CD			1.02	0.95	0.99	1.32	1.25	1.29	0-2	36	S	F1050
IWF2-1.001	300	IWF2-2	29.25	28	IWF2-3	29.6	27.768	43.477	CD			0.95	1.53	1.24	1.25	1.83	1.54	0-2	187	S	F1050
IWF2-1.002	300	IWF2-3	29.6	27.768	IWF2-4	29.6	27.63	13.808	CD			1.53	1.67	1.60	1.83	1.97	1.90	0-2	100	S	C1050
IWF2-1.003	300	IWF2-4	29.6	27.63	IWF2-5	30	27.17	64.341	CD			1.67	2.53	2.10	1.97	2.83	2.40	2-4	140	S	C1050
IWF2-1.004	300	IWF2-5	30	27.17	IWF2-6	28.3	26.99	17.864	CD			2.53	1.01	1.77	2.83	1.31	2.07	2-4	99	S	C1050
IWS2 - Surface Water Diversion Coolagh																					
IWS2-1.000	225	IWS2-1	30.49	28.97	IWS2-2	29.5	28.15	40.452	CD			1.30	1.13	1.21	1.52	1.35	1.44	0-2	49	S	F1050
IWS2-1.001	225	IWS2-2	29.5	28.15	IWS2-3	30.45	27.626	42.419	CD			1.13	2.60	1.86	1.35	2.82	2.09	2-4	81	S	F1050
IWS2-1.002	225	IWS2-3	30.45	27.626	IWS2-4	30.25	27.457	13.732	CD			2.60	2.57	2.58	2.82	2.79	2.81	2-4	81	S	C1050
IWS2-1.003	225	IWS2-4	30.25	27.457	IWS2-5	30.08	26.683	62.685	CD			2.57	3.17	2.87	2.79	3.40	3.10	2-4	81	S	C1050
IWS2-1.004	225	IWS2-5	30.08	26.683	IWS2-6	28.13	26.355	26.548	CD			3.17	1.55	2.36	3.40	1.78	2.59	2-4	81	S	D1050
Kennys Foul Diversion																					
F43-1.000	300	F43-1	26	20.271	F43-2	28	20.018	78.258	CD			5.43	7.68	6.56	5.73	7.98	6.86	6-8	309	S	D1050
F43-1.001	300	F43-2	28	20.018	F43-3	26	19.739	86.124	CD			7.68	5.96	6.82	7.98	6.26	7.12	6-8	309	S	E1500
Kennys Surface Water Diversion																					
S43-1.000	600	S43-3	25.8	23.219	S43-1	26	23.2	9.619	CD			1.98	2.20	2.09	2.58	2.80	2.69	2-4	506	S	C1200
S43-1.001	900	S43-1	26	20.274	S43-2	28	20.075	83.455	CD			4.83	7.03	5.93	5.73	7.93	6.83	6-8	419	S	D1500
S43-1.002	900	S43-2	28	20.075	S43-3	26	19.869	86.356	CD			7.03	5.23	6.13	7.93	6.13	7.03	6-8	419	S	E1500
Galway Racecourse Foul Diversion																					
IDA-F1.000	375	IDA-F1	52.29	49.36	IDA-F2	52.37	49.352	2.385	CD			2.56	2.64	2.60	2.93	3.02	2.97	2-4	298	S	C1050
IDA-F1.001	375	IDA-F2	52.37	49.352	IDA-F3	52.45	49.288	19.854	CD			2.64	2.79	2.72	3.02	3.16	3.09	2-4	310	S	C1050
IDA-F1.002	375	IDA-F3	52.45	49.288	IDA-F4	52.28	49.14	45.822	CD			2.79	2.77	2.78	3.16	3.14	3.15	2-4	310	S	C1050
IDA-F1.003	375	IDA-F4	52.28	49.14	IDA-F5	51.97	48.999	28.387	CD			2.77	2.60	2.68	3.14	2.97	3.06	2-4	201	S	C1050
IDA-F1.004	375	IDA-F5	51.97	48.999	IDA-F4	51.715	48.484	102.977	CD			2.60	2.86	2.73	2.97	3.23	3.10	2-4	200	S	C1050
Galway Racecourse Surface Water Diversion																					
IDA-S1.000	600	IDA-S1	52.025	49.106	IDA-S3	52.22	49.084	11.107	CD			2.32	2.54	2.43	2.92	3.14	3.03	2-4	505	S	C1200
IDA-S2.000	750	IDA-S2	52.25	49.534	IDA-S3	52.22	49.523	4.79	CD			1.97	1.95	1.96	2.72	2.70	2.71	2-4	435	S	C1350
IDA-S1.001	750	IDA-S3	52.22	48.934	IDA-S4	52.45	48.886	20.17	CD			2.54	2.81	2.68	3.29	3.56	3.43	2-4	420	S	C1350
IDA-S1.002	750	IDA-S4	52.45	48.886	IDA-S5	52.28	48.762	52.187	CD			2.81	2.77	2.79	3.56	3.52	3.54	2-4	421	S	C1350
IDA-S1.003	750	IDA-S5	52.28	48.762	IDA-S6	51.48	48.683	33.01	CD			2.77	2.05	2.41	3.52	2.80	3.16	2-4	418	S	C1350
IDA-S1.004	750	IDA-S6	51.48	48.683	IDA-S7	51.86	48.066	98.75	CD			2.05	3.04	2.55	2.80	3.79	3.30	2-4	160	S	C1350
IDA-S1.005	750	IDA-S7	51.86	48.066	IDA-S8	50.5	47.862	50.665	CD			3.04	1.89	2.47	3.79	2.64	3.22	2-4	248	S	D1500
IDA-S1.006	750	IDA-S8	50.5	47.862	IDA-S5	50.355	47.6	65.436	CD			1.89	2.01	1.95	2.64	2.76	2.70	2-4	250	S	C1350
IWF1 - Keeraun Foul Diversion																					
IWF1-1.000	300	IWF1-1	57.2	54.541	IWF1-2	57.5	54.329	50.095	CD			2.36	2.87	2.62	2.66	3.17	2.92	2-4	236	S	C1050
IWF1-1.001	300	IWF1-2	57.5	54.329	IWF1-3	57.8	54.12	49.213	CD			2.87	3.38	3.13	3.17	3.68	3.43	2-4	235	S	C1050
IWF1-1.002	300	IWF1-3	57.8	54.12	IWF1-4	56.2	53.925	46.085	CD			3.38	1.98	2.68	3.68	2.28	2.98	2-4	236	S	D1050
IWF1-1.003	300	IWF1-4	56.2	53.925	IWF1-5	54.6	53.025	45.836	CD			1.98	1.28	1.63	2.28	1.58	1.93	0-2	51	S	C1050
IWF1-1.004	300	IWF1-5	54.6	53.025	IWF1-6	54.396	52.404	34.591	CD			1.28	1.69	1.48	1.58	1.99	1.78	0-2	56	S	F1050
IWS1 - Keeraun Surface Water Diversion																					
IWS1-1.000	300	IWS1-1	57.2	55.169	IWS1-2	57.4	55.014	50	CD			1.73	2.09	1.91	2.03	2.39	2.21	2-4	323	S	C1050
IWS1-1.001	300	IWS1-2	57.4	55.014	IWS1-3	57.8	54.859	48.905	CD			2.09	2.64	2.36	2.39	2.94	2.66	2-4	316	S	C1050
IWS1-1.002	300	IWS1-3	57.8	54.859	IWS1-4	56	54.425	45.505	CD			2.64	1.28	1.96	2.94	1.58	2.26	2-4	105	S	C1050
IWS1-1.003	300	IWS1-4	56	54.425	IWS1-5	55	53.425	44.834	CD			1.28	1.28	1.28	1.58	1.58	1.58	0-2	45	S	F1050
IWS1-1.004	300	IWS1-5	55	53.425	IWS1-6	54.396	53.033	33.204	CD			1.28	1.06	1.17	1.58	1.36	1.47	0-2	85	S	F1050

IWF3 - School Road Foul Diversion																					
IWF3-1.000	300	IWF3-1	35.86	33.17	IWF3-2	35.4	33.031	20.797	CD			2.39	2.07	2.23	2.69	2.37	2.53	2-4	150	S	C1050
IWF3-1.001	300	IWF3-2	35.4	33.031	IWF3-3	33.55	32.416	92.243	CD			2.07	0.83	1.45	2.37	1.13	1.75	0-2	150	S	C1050
IWF3-1.002	300	IWF3-3	33.55	30.62	IWF3-4	33.55	30.581	5.856	CD			2.63	2.67	2.65	2.93	2.97	2.95	2-4	150	S	C1050

2. Gully Schedule																				
Pipe Ref.	Location ⁽²¹⁾ ₍₂₂₎		Chainage																	
3. Grassed Surface Water Channel Schedule																				
Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment	
4. Attenuation/Pollution Control																				
Start Chainage	End Chainage	Type																		

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S44 (Doc Ref. GCOB-4.03.03.3-056)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S44-1.000	375	S44-1	9.1	7.8	S44-2	8.7	7.63	50.955	FD			0.93	0.69	0.81	1.30	1.07	1.19	0-2	300	K	F1050
S44-1.001	375	S44-2	8.7	7.63	S44-3	8.35	7.46	50.955	FD			0.69	0.52	0.61	1.07	0.89	0.98	0-2	300	K	F1050
S44-1.002	375	S44-3	8.35	7.46	S44-4	9	7.226	70.259	FD			0.52	1.40	0.96	0.89	1.77	1.33	0-2	300	K	F1050
S44-1.003	450	S44-4	9	7.151	S44-5	8.2	6.847	79.106	FD			1.40	0.90	1.15	1.85	1.35	1.60	0-2	260	K	C1050
S44-1.004	450	S44-5	8.2	6.847	S44-6	7.82	6.543	79.106	FD			0.90	0.83	0.87	1.35	1.28	1.32	0-2	260	K	F1050
S44-1.005	450	S44-6	7.82	6.543	S44-7	8.45	6.224	82.767	FD			0.83	1.78	1.30	1.28	2.23	1.75	0-2	259	K	F1050
S44-1.006	450	S44-7	8.45	6.224	S44-100	6.7	5.94	73.957	CD			1.78	0.31	1.04	2.23	0.76	1.49	0-2	260	S	C1050

2. Gully Schedule

Pipe Ref.	Location ⁽²¹⁾ ⁽²²⁾	Chainage
S41-1.000	SR	MLN 13+125
S41-1.001	SR	MLN 13+150
S41-1.002	SR	MLN 13+150

3. Grassed Surface Water Channel Schedule

Channel Ref.	Start Chainage	End Chainage	L ⁽²⁴⁾ (m)	u/s IL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	Channel Depth (m)	X ⁽²³⁾ (m)	V ⁽²³⁾	W ⁽²³⁾	Y ⁽²³⁾ (m)	Outlet Ref. No.	No. of gratings	G ⁽²³⁾ (m)	H ⁽²³⁾ (m)	Z ⁽²³⁾ (m)	Length of Terminal Ramp (m)	Pipe Ref. Connecting Pipe	Diameter of connecting	Comment

4. Attenuation/Pollution Control

Start Chainage	End Chainage	Pipe Number

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S45 (Doc Ref. GCOB-4.03.03.3-057)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S45-1.000	150	S45-1	53.825	52.400	S45-2	53.548	52.100	29.999	CD			1.28	1.30	1.29	1.43	1.45	1.44	0-2	100	S	C1050
S45-1.001	225	S45-2	53.548	52.025	S45-8	53.384	51.617	68.216	CD			1.30	1.54	1.42	1.52	1.77	1.65	0-2	167	S	C1050
S45-2.000	225	S45-3	53.723	52.223	S45-4	53.433	51.931	48.142	CD			1.28	1.28	1.28	1.50	1.50	1.50	0-2	165	S	C1050
S45-2.001	225	S45-4	53.433	51.931	S45-7	53.541	51.816	19.161	CD			1.28	1.50	1.39	1.50	1.72	1.61	0-2	167	S	C1050
S45-3.000	225	S45-5	53.755	52.188	S45-7	53.541	51.816	56.517	CD			1.34	1.50	1.42	1.57	1.72	1.65	0-2	152	S	C1050
S45-4.000	150	S45-6	53.474	52.341	S45-7	53.541	51.891	32.521	CD			0.98	1.50	1.24	1.13	1.65	1.39	0-2	72	S	F1050
S45-2.002	225	S45-7	53.541	51.816	S45-8	53.384	51.616	16.804	CD			1.50	1.54	1.52	1.72	1.77	1.75	0-2	84	S	C1050
S45-1.002	375	S45-8	53.384	51.466	S45-11	53.045	51.126	22.839	CD			1.54	1.54	1.54	1.92	1.92	1.92	0-2	67	S	C1050
S45-5.000	225	S45-9	53.201	51.701	S45-10	52.898	51.341	60.049	CD			1.28	1.33	1.30	1.50	1.56	1.53	0-2	167	S	C1050
S45-5.001	225	S45-10	52.898	51.341	S45-11	53.045	51.276	10.846	CD			1.33	1.54	1.44	1.56	1.77	1.66	0-2	167	S	C1050
S45-1.003	375	S45-11	53.045	51.126	S45-18	52.892	50.911	43.994	CD			1.54	1.61	1.58	1.92	1.98	1.95	0-2	205	S	C1050
S45-6.000	225	S45-12	53.506	52.006	S45-13	53.547	51.824	30.436	CD			1.28	1.50	1.39	1.50	1.72	1.61	0-2	167	S	C1050
S45-6.001	225	S45-13	53.547	51.824	S45-14	53.312	51.512	52.131	CD			1.50	1.58	1.54	1.72	1.80	1.76	0-2	167	S	C1050
S45-6.002	225	S45-14	53.312	51.512	S45-17	53.165	51.232	13.506	CD			1.58	1.71	1.64	1.80	1.93	1.87	0-2	48	S	C1050
S45-7.000	150	S45-15	53.358	51.946	S45-16	53.433	51.667	27.912	CD			1.26	1.62	1.44	1.41	1.77	1.59	0-2	100	S	C1050
S45-7.001	150	S45-16	53.433	51.667	S45-17	53.165	51.307	29.499	CD			1.62	1.71	1.66	1.77	1.86	1.81	0-2	82	S	C1050
S45-6.003	225	S45-17	53.165	51.232	S45-18	52.892	51.062	15.975	CD			1.71	1.61	1.66	1.93	1.83	1.88	0-2	94	S	C1050
S45-1.004	450	S45-18	52.892	50.836	S45-21	52.637	50.773	7.215	CD			1.61	1.41	1.51	2.06	1.86	1.96	0-2	115	S	C1050
S45-8.000	225	S45-19	52.691	51.491	S45-20	52.423	51.221	45.034	CD			0.98	0.98	0.98	1.20	1.20	1.20	0-2	167	S	F1050
S45-8.001	225	S45-20	52.423	51.221	S45-21	52.637	50.998	37.233	CD			0.98	1.41	1.20	1.20	1.64	1.42	0-2	167	S	F1050
S45-1.005	450	S45-21	52.637	50.773	S45-22	52.500	50.682	18.163	CD			1.41	1.37	1.39	1.86	1.82	1.84	0-2	200	S	C1050
S45-1.006	450	S45-22	52.500	50.682	S45-22	52.280	50.583	19.896	CD			1.37	1.25	1.31	1.82	1.70	1.76	0-2	201	S	C1050
S45-9.000	150	S45-23	53.255	51.830	S45-24	53.300	51.591	23.909	CD			1.28	1.56	1.42	1.43	1.71	1.57	0-2	100	S	C1050
S45-9.001	150	S45-24	53.300	51.591	S45-25	52.400	51.330	26.076	CD			1.56	0.92	1.24	1.71	1.07	1.39	0-2	100	S	C1050
S45-9.002	150	S45-25	52.400	51.330	S45-30	52.300	51.191	13.959	CD			0.92	0.96	0.94	1.07	1.11	1.09	0-2	100	S	F1050
S45-10.000	225	S45-26	52.695	51.495	S45-28	52.850	51.332	37.785	CD			0.98	1.29	1.13	1.20	1.52	1.36	0-2	232	S	F1050
S45-11.000	300	S45-27	52.934	51.345	S45-28	52.850	51.257	20.477	CD			1.29	1.29	1.29	1.59	1.59	1.59	0-2	233	S	C1050
S45-10.001	300	S45-28	52.850	51.257	S45-29	53.038	51.203	12.478	CD			1.29	1.53	1.41	1.59	1.83	1.71	0-2	231	S	C1050
S45-10.002	300	S45-29	53.038	51.203	S45-30	52.300	51.060	33.293	CD			1.53	0.94	1.24	1.83	1.24	1.54	0-2	233	S	C1050
S45-9.003	300	S45-30	52.300	51.041	S45-100	52.270	51.027	2.253	CD			0.96	0.94	0.95	1.26	1.24	1.25	0-2	161	S	F1050

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule F45 (Doc Ref. GCOB-4.03.03.03-058)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
F45-1.000	100	F45-1	53.765	52.375	F45-2	53.533	51.837	32.307	CD			1.29	1.60	1.44	1.39	1.70	1.54	0-2	60	S	C1050
F45-1.001	150	F45-2	53.533	51.787	F45-8	53.319	50.800	67.867	CD			1.60	2.37	1.98	1.75	2.52	2.13	2-4	69	S	C1050
F45-2.000	100	F45-3	53.615	52.275	F45-4	53.403	51.507	46.076	CD			1.24	1.80	1.52	1.34	1.90	1.62	0-2	60	S	C1050
F45-2.001	100	F45-4	53.403	51.507	F45-7	53.506	51.189	19.087	CD			1.80	2.22	2.01	1.90	2.32	2.11	2-4	60	S	C1050
F45-3.000	100	F45-5	53.486	51.815	F45-7	53.506	51.189	37.579	CD			1.57	2.22	1.89	1.67	2.32	1.99	0-2	60	S	C1050
F45-4.000	100	F45-6	53.744	52.079	F45-7	53.506	51.189	53.425	CD			1.57	2.22	1.89	1.67	2.32	1.99	0-2	60	S	C1050
F45-2.002	100	F45-7	53.506	51.189	F45-8	53.319	50.851	20.298	CD			2.22	2.37	2.29	2.32	2.47	2.39	2-4	60	S	C1050
F45-1.002	150	F45-8	53.319	50.800	F45-9	53.017	50.579	22.084	CD			2.37	2.29	2.33	2.52	2.44	2.48	2-4	100	S	C1050
F45-1.003	150	F45-9	53.017	50.579	F45-16	52.708	50.141	43.827	CD			2.29	2.42	2.35	2.44	2.57	2.50	2-4	100	S	C1050
F45-5.000	100	F45-10	53.531	52.156	F45-11	53.567	51.671	29.092	CD			1.28	1.80	1.54	1.38	1.90	1.64	0-2	60	S	C1050
F45-5.001	100	F45-11	53.567	51.671	F45-12	53.315	50.832	50.354	CD			1.80	2.38	2.09	1.90	2.48	2.19	2-4	60	S	C1050
F45-5.002	100	F45-12	53.315	50.832	F45-15	53.067	50.593	14.320	CD			2.38	2.37	2.38	2.48	2.47	2.48	2-4	60	S	C1050
F45-6.000	100	F45-13	53.469	52.094	F45-14	53.347	51.631	27.776	CD			1.28	1.62	1.45	1.38	1.72	1.55	0-2	60	S	C1050
F45-6.001	100	F45-14	53.347	51.631	F45-15	53.067	51.142	29.323	CD			1.62	1.83	1.72	1.72	1.93	1.82	0-2	60	S	C1050
F45-5.003	100	F45-15	53.067	50.593	F45-16	52.708	50.191	15.183	CD			2.37	2.42	2.40	2.47	2.52	2.50	2-4	38	S	C1050
F45-1.004	150	F45-16	52.708	50.141	F45-17	52.488	49.871	26.945	CD			2.42	2.47	2.44	2.57	2.62	2.59	2-4	100	S	C1050
F45-1.005	150	F45-17	52.488	49.871	F45-	52.450	49.513	16.333	CD			2.47	2.79	2.63	2.62	2.94	2.78	2-4	46	S	C1050
F45-7.000	300	F45-18	52.660	51.050	F45-19	52.660	50.933	11.678	CD			1.31	1.43	1.37	1.61	1.73	1.67	0-2	100	S	C1050
F45-7.001	300	F45-19	52.660	50.933	F45-20	52.300	50.732	24.239	CD			1.43	1.27	1.35	1.73	1.57	1.65	0-2	121	S	C1050
F45-7.002	300	F45-20	52.300	50.732	F45-21	52.968	50.326	40.626	CD			1.27	2.34	1.81	1.57	2.64	2.11	2-4	100	S	C1050
F45-7.003	300	F45-21	52.968	50.326	F45-22	52.552	49.750	57.623	CD			2.34	2.50	2.42	2.64	2.80	2.72	2-4	100	S	C1050
F45-7.004	300	F45-22	52.552	49.750	F45-23	52.000	49.329	42.106	CD			2.50	2.37	2.44	2.80	2.67	2.74	2-4	100	S	C1050
F45-7.005	300	F45-23	52.000	49.329	F45-	52.280	49.215	11.376	CD			2.37	2.77	2.57	2.67	3.07	2.87	2-4	100	S	C1050

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule S46 (Doc Ref. GCOB-4.03.03.03.3-059)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
S46-1.000	225	S46-1	56.267	54.767	S46-2	55.879	54.348	69.967	CD			1.28	1.31	1.29	1.50	1.53	1.52	0-2	167	S	C1050
S46-1.001	225	S46-2	55.879	54.348	S46-17	55.386	53.700	65.004	CD			1.31	1.46	1.38	1.53	1.69	1.61	0-2	100	S	C1050
S46-2.000	225	S46-3	56.199	54.999	S46-8	56.378	54.677	53.807	CD			0.97	1.48	1.23	1.20	1.70	1.45	0-2	167	S	F1050
S46-3.000	225	S46-4	57.813	56.383	S46-5	56.809	55.483	55.154	CD			1.21	1.10	1.15	1.43	1.33	1.38	0-2	61	S	C1050
S46-3.001	225	S46-5	56.809	55.483	S46-7	56.485	54.847	30.838	CD			1.10	1.41	1.26	1.33	1.64	1.48	0-2	48	S	C1050
S46-4.000	225	S46-6	57.360	55.800	S46-7	56.485	54.847	51.924	CD			1.34	1.41	1.37	1.56	1.64	1.60	0-2	54	S	C1050
S46-3.002	225	S46-7	56.485	54.847	S46-8	56.378	54.677	28.356	CD			1.41	1.48	1.44	1.64	1.70	1.67	0-2	167	S	C1050
S46-2.001	300	S46-8	56.378	54.602	S46-10	56.369	54.499	17.142	CD			1.48	1.57	1.52	1.78	1.87	1.82	0-2	166	S	C1050
S46-5.000	225	S46-9	56.021	54.821	S46-10	56.369	54.497	54.108	CD			0.98	1.65	1.31	1.20	1.87	1.54	0-2	167	S	F1050
S46-2.002	300	S46-10	56.369	54.422	S46-12	56.297	54.320	17.017	CD			1.65	1.68	1.66	1.95	1.98	1.96	0-2	167	S	C1050
S46-6.000	225	S46-11	55.919	54.719	S46-12	56.297	54.395	54.108	CD			0.97	1.68	1.33	1.20	1.90	1.55	0-2	167	S	F1050
S46-2.003	375	S46-12	56.297	54.245	S46-14	56.154	54.134	18.723	CD			1.68	1.65	1.66	2.05	2.02	2.04	2-4	169	S	C1050
S46-7.000	225	S46-13	55.808	54.608	S46-14	56.154	54.284	54.119	CD			0.98	1.65	1.31	1.20	1.87	1.54	0-2	167	S	F1050
S46-2.004	375	S46-14	56.154	54.134	S46-15	55.771	53.450	13.845	CD			1.65	1.95	1.80	2.02	2.32	2.17	2-4	20	S	C1050
S46-2.005	375	S46-15	55.771	53.450	S46-16	55.148	53.401	15.878	CD			1.95	1.37	1.66	2.32	1.75	2.03	2-4	324	S	C1050
S46-2.006	375	S46-16	55.148	53.401	S46-17	55.386	53.371	9.701	CD			1.37	1.64	1.51	1.75	2.02	1.88	0-2	323	S	C1050
S46-1.002	450	S46-17	55.386	53.296	S46-18	54.600	53.269	8.632	CD			1.64	0.88	1.26	2.09	1.33	1.71	0-2	320	S	C1050

N6 GCRR Drainage Schedules

N6 Galway City Ring Road

Drainage: Schedule F46 (Doc Ref. GCOB-4.03.03.3-060)

Rev -

1. Pipe Schedule

Pipe ⁽¹⁾	Dia. ⁽¹⁾ (mm)	u/s MH ⁽¹⁾	u/s CL ⁽¹⁾ (mOD)	u/s IL ⁽¹⁾ (mOD)	d/s MH ⁽¹⁾	d/s CL ⁽¹⁾ (mOD)	d/s IL ⁽¹⁾ (mOD)	L ⁽¹⁾ (m)	Pipe Type ^{(2),(3)}	RC ^{(2),(4)}	Rock ^{(2),(6)} (Y/N)	u/s C ⁽¹¹⁾ (m)	d/s C ⁽¹¹⁾ (m)	C _{ave} ⁽¹¹⁾ (m)	u/s D ⁽¹²⁾ (m)	d/s D ⁽¹²⁾ (m)	D _{ave} ⁽¹²⁾ (m)	D _{band} ⁽¹³⁾	Slope ⁽¹⁴⁾ (1 / x)	Bed Type ⁽¹⁵⁾	Chamber Type ⁽¹⁶⁾
F46-1.000	100	F46-1	56.222	55.312	F46-2	55.802	54.179	67.977	CD			0.81	1.52	1.17	0.91	1.62	1.27	0-2	60	S	B
F46-1.001	100	F46-2	55.802	54.179	F46-3	55.334	52.999	70.799	CD			1.52	2.24	1.88	1.62	2.34	1.98	0-2	60	S	C1050
F46-1.002	100	F46-3	55.334	52.999	F46-13	55.514	52.730	6.017	CD			2.24	2.68	2.46	2.34	2.78	2.56	2-4	22	S	C1050
F46-2.000	100	F46-4	56.247	54.925	F46-5	56.394	53.995	55.807	CD			1.22	2.30	1.76	1.32	2.40	1.86	0-2	60	S	C1050
F46-2.001	100	F46-5	56.394	53.995	F46-7	56.314	53.708	17.219	CD			2.30	2.51	2.40	2.40	2.61	2.50	2-4	60	S	C1050
F46-3.000	100	F46-6	56.053	54.895	F46-7	56.314	53.708	56.109	CD			1.06	2.51	1.78	1.16	2.61	1.88	0-2	47	S	C1050
F46-2.002	150	F46-7	56.314	53.658	F46-9	56.223	53.488	17.017	CD			2.51	2.59	2.55	2.66	2.74	2.70	2-4	100	S	C1050
F46-4.000	100	F46-8	55.931	54.777	F46-9	56.223	53.838	56.109	CD			1.05	2.29	1.67	1.15	2.39	1.77	0-2	60	S	C1050
F46-2.003	150	F46-9	56.223	53.488	F46-11	56.176	53.301	18.717	CD			2.59	2.73	2.66	2.74	2.88	2.81	2-4	100	S	C1050
F46-5.000	100	F46-10	55.815	54.286	F46-11	56.176	53.351	56.109	CD			1.43	2.73	2.08	1.53	2.83	2.18	2-4	60	S	C1050
F46-2.004	150	F46-11	56.176	53.301	F46-12	55.880	53.202	9.938	CD			2.73	2.53	2.63	2.88	2.68	2.78	2-4	100	S	C1050
F46-2.005	150	F46-12	55.880	53.202	F46-13	55.514	52.680	10.117	CD			2.53	2.68	2.61	2.68	2.83	2.76	2-4	19	S	C1050
F46-1.003	150	F46-13	55.514	52.680	F46-100	54.920	52.425	25.453	CD			2.68	2.35	2.51	2.83	2.50	2.66	2-4	100	S	C1050