



MATCHLINE - REFER TO DRAWING 182-134-001 FOR DETAILS OF PROPOSED DRAINAGE WITHIN THE DEVELOPMENT SITE

MANHOLE S1-13 (HB) INLET TO BE FITTED WITH PENSTOCK & OUTLET TO BE FITTED WITH HYDROBRAKE TO LIMIT FORWARD FLOW TO 35.5 L/Sec (BYPASS DOOR OF HYDROBRAKE NOT TO BE PROVIDED)

ATTENUATION TANK No. 2
840m² x 1.35m DEEP
LIQUID STORAGE
CAPACITY 1078m³

EXISTING 450 DIAMETER CULVERT TO BE RETAINED AND NEW HEADWALLS TO BE CONSTRUCTED AT EITHER END

MATCHLINE - REFER TO DRAWING 182-134-003 FOR DETAILS OF FOUL OUTFALL TO WOODBROOK

LEGEND

- SITE BOUNDARY
- EXISTING FOUL SEWER (TO BE ABANDONED & REMOVED)
- PROPOSED FOUL SEWER
- PROPOSED FOUL MANHOLE
- PROPOSED SURFACE WATER SEWER
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED SURFACE WATER MANHOLE C/W HYDROBRAKE
- DN225 FILTER DRAIN
- PROPOSED ATTENUATION TANK
- WATER FEATURE
- EXISTING BOXSHORE DRAINS (TO BE DECOMMISSIONED & REMOVED)
- EXISTING OPEN DRAIN (SHANGANAGH PARK)
- EXISTING PIPED DRAIN

NOTES :

1. PROGRAMMING OF WORKS WITHIN 50m OF POND TO BE AGREED IN ADVANCE WITH PROJECT ECOLOGIST

IMPERMEABLE PAVED AREAS

- ALLOW FOR 1 GULLY PER 100m² OF PAVED AREAS
- ALLOW FOR DN150 CONNECTOR PIPES FROM GULLY TO NEAREST MANHOLE OR SURFACE WATER SEWER
- MAX LENGTH OF CONNECTOR PIPE = 15m
- ALL CONNECTIONS TO SURFACE WATER SEWER TO BE MADE WITH PROPRIETARY FITTING

PERMEABLE PAVED AREAS, RAIN GARDENS & SWALES

- ALL PERMEABLE PAVING AND RAIN GARDENS WILL REQUIRE A 150mm DIAMETER FILTER DRAIN THAT WILL CONNECT TO ADJACENT SURFACE WATER DRAINAGE
- FILTER DRAINS FOR PERMEABLE PAVING AND SWALES OMITTED FOR CLARITY

FOUL SEWERS

- ALL FOUL MAIN RUN WORKS TO COMPLY WITH IRISH WATER REQUIREMENTS

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STORM MANHOLE SCHEDULE

Name	Cover Level (m)	Depth (m)
S1-0	25.9	1.2
S1-1	25.662	1.117
S1-2	26.487	1.425
S1-3	26.146	1.723
S1-4	26.573	2.222
S1-5	26.252	2.013
S1-6	26.012	1.913
S1-7	26.528	1.5
S1-8	27.983	1.58
S1-9	27.527	1.653
S1-10	27.412	1.738
S1-11	27.254	1.425
S1-12	26.939	1.577
S1-13	27.175	2.173
S1-14	27.364	2.436
S1-15	27.083	2.075
S1-16	27.239	3.434
S1-17	26.414	1.425
S1-18	27.288	2.464
S1-19	28.102	3.396
S1-20	28.783	1.425
S1-21	28.596	4.037
S1-22	25.391	1.091
S1-23	26.048	1.901
S1-24	26.598	1.59
S1-25	26.74	2.778
S1-26	27.088	3.803
S1-27	26.206	3.166
S1-28	25.71	2.263
S1-29	24.787	1.157
S1-30	25.539	2.127
S1-31	25.4	2.138
S1-32	26.316	1.216
S1-33	26.247	1.444
S1-34	26.136	1.469
S1-35	26.059	1.456
S1-36	26.649	1.535
S1-37	26.212	1.681
S1-38	26.343	1.425
S1-39	26.35	1.587
S1-40	26.118	1.712
S1-41	26.231	2.059
S1-42	26.35	1.425
S1-43	26.040	2.111
S1-44	25.799	1.948
S1-45	25.478	1.74
S1-46	25	1.329
S1-47	25.2	1.099
S1-48	24.8	1.438
S1-49	25	2.224
S1-50	25.2	2.539
S1-51	25.2	2.573
S1-52	25.2	2.126
S1-53	24.45	1.478
Ditch	24.45	1.53

SURFACE WATER SEWER DESIGN TABLES

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
S1.000	S1-0	S1-1	17.001	24.7	24.545	0.155	109.7	300
S1.001	S1-1	S1-2	30.5	24.545	24.423	0.122	250	375
S1.002	S1-2	S1-3	18	24.423	24.351	0.072	250	375
S1.003	S1-3	S1-4	28	24.351	24.239	0.112	250	450
S1.004	S1-4	S1-5	35.061	24.239	24.099	0.14	250	500
S1.005	S1-5	S1-6	73.4	24.099	23.805	0.294	249.7	600
S1.006	S1-6	S1-7	25.001	23.805	23.643	0.162	300	300
S1.007	S1-7	S1-8	31.734	23.643	23.571	0.072	300	300
S1.008	S1-8	S1-9	28.879	23.571	23.474	0.097	300	300
S1.009	S1-9	S1-10	5.5	23.474	23.564	0.09	300	375
S1.010	S1-10	S1-11	21	23.564	23.362	0.202	45	225
S1.011	S1-11	S1-12	35.961	23.362	23.002	0.36	99.9	450
S1.012	S1-12	S1-13	30.039	23.002	24.928	0.074	405.9	450
S1.013	S1-13	S1-14	24.508	24.928	24.408	0.52	150	450
S1.014	S1-14	S1-15	11.397	24.408	24.38	0.028	407	450
S1.015	S1-15	S1-16	6	23.805	23.785	0.02	300	750
S1.016	S1-16	S1-17	28	24.989	24.824	0.165	170	225
S1.017	S1-17	S1-18	19.999	24.824	24.706	0.118	170	225
S1.018	S1-18	S1-19	25.004	24.706	24.559	0.147	170	225
S1.019	S1-19	S1-20	15.997	24.559	24.291	0.267	59.9	225
S1.020	S1-20	S1-21	64.9	24.291	23.962	0.329	249.3	450
S1.021	S1-21	S1-22	38.165	23.962	23.854	0.108	259.3	600
S1.022	S1-22	S1-23	24.147	23.854	23.54	0.31	285.7	750
S1.023	S1-23	S1-24	24.008	23.54	23.447	0.093	301.1	375
S1.024	S1-24	S1-25	1.139	23.447	23.418	0.029	263.8	375
S1.025	S1-25	S1-26	44.75	23.418	23.412	0.006	205.3	300
S1.026	S1-26	S1-27	23.62	23.412	23.262	0.15	324	375
S1.027	S1-27	S1-28	40.233	23.262	23.161	0.101	400	450
S1.028	S1-28	S1-29	25.1	23.161	23.003	0.158	300	300
S1.029	S1-29	S1-30	20.467	23.003	24.667	0.136	150.5	375
S1.030	S1-30	S1-31	24.667	24.667	24.603	0.064	319.8	375
S1.031	S1-31	S1-32	22.786	24.603	24.448	0.155	147	450
S1.032	S1-32	S1-33	35.001	24.448	24.531	0.083	140	225
S1.033	S1-33	S1-34	9.91	24.531	24.405	0.125	79.8	300
S1.034	S1-34	S1-35	15.501	24.405	24.763	0.358	100	225
S1.035	S1-35	S1-36	13.665	24.763	24.613	0.15	91.1	225
S1.036	S1-36	S1-37	37.814	24.613	24.372	0.241	161.6	500
S1.037	S1-37	S1-38	36.196	24.372	23.938	0.434	154.7	600
S1.038	S1-38	S1-39	25.499	23.938	23.367	0.571	45.7	225
S1.039	S1-39	S1-40	23.415	23.367	23.851	0.087	269.1	500
S1.040	S1-40	S1-41	30.585	23.851	23.738	0.113	270.7	600
S1.041	S1-41	S1-42	15.611	23.738	23.671	0.067	233	600
S1.042	S1-42	S1-43	17.751	23.671	23.601	0.07	233.6	600
S1.043	S1-43	S1-44	39.09	23.601	23.362	0.239	281.2	600
S1.044	S1-44	S1-45	22.277	23.362	23.276	0.086	259	600
S1.045	S1-45	S1-46	16.507	23.276	23.213	0.063	262	600
S1.046	S1-46	S1-47	18.084	23.213	23.127	0.086	330	900
S1.047	S1-47	S1-48	13.034	23.127	23.074	0.053	245	300
S1.048	S1-48	S1-49	24.931	23.074	22.972	0.102	245	300
S1.049	S1-49	S1-50	12.659	22.972	22.92	0.052	245	300

FOUL MANHOLE SCHEDULE

Name	Cover Level (m)	Depth (m)
F1-0	26.316	1.425
F1-1	26.216	1.567
F1-2	26.247	1.698
F1-3	26.02	1.577
F1-4	26.678	1.424
F1-5	26.232	1.083
F1-6	26.181	1.097
F1-7	26.207	1.698
F1-8	26.12	2.091
F1-9	26.045	2.061
F1-10	26.299	1.68
F1-11	26.251	2.982
F1-12	26.377	1.425
F1-13	27.194	2.649
F1-14	27.526	3.481
F1-15	28.399	1.425
F1-16	28.819	2.532
F1-17	28.525	4.215
F1-18	26.598	3.408
F1-19	27.083	1.425
F1-20	27.22	2.855
F1-21	27.385	1.425
F1-22	27.354	1.544
F1-23	27.301	1.151
F1-24	27.117	1.099
F1-25	27.117	1.099
F1-26	27.354	1.544
F1-27	27.301	1.151
F1-28	27.117	1.099
F1-29	27.117	1.099
F1-30	27.354	1.544
F1-31	27.301	1.151
F1-32	27.117	1.099
F1-33	27.117	1.099
F1-34	27.354	1.544
F1-35	27.301	1.151
F1-36	27.117	1.099
F1-37	27.117	1.099
F1-38	27.354	1.544
F1-39	27.301	1.151
F1-40	27.117	1.099
F1-41	27.117	1.099
F1-42	27.354	1.544
F1-43	27.301	1.151
F1-44	27.117	1.099
F1-45	27.117	1.099
F1-46	27.354	1.544
F1-47	27.301	1.151
F1-48	27.117	1.099
F1-49	27.117	1.099
F1-50	27.354	1.544
F1-51	27.301	1.151
F1-52	27.117	1.099
F1-53	27.117	1.099
F1-54	27.354	1.544
F1-55	27.301	1.151
F1-56	27.117	1.099
F1-57	27.117	1.099
F1-58	27.354	1.544
F1-59	27.301	1.151
F1-60	27.117	1.099
F1-61	27.117	1.099
F1-62	27.354	1.544
F1-63	27.301	1.151
F1-64	27.117	1.099
F1-65	27.117	1.099
F1-66	27.354	1.544
F1-67	27.301	1.151
F1-68	27.117	1.099
F1-69	27.117	1.099
F1-70	27.354	1.544
F1-71	27.301	1.151
F1-72	27.117	1.099
F1-73	27.117	1.099
F1-74	27.354	1.544
F1-75	27.301	1.151
F1-76	27.117	1.099
F1-77	27.117	1.099
F1-78	27.354	1.544
F1-79	27.301	1.151
F1-80	27.117	1.099
F1-81	27.117	1.099
F1-82	27.354	1.544
F1-83	27.301	1.151
F1-84	27.117	1.099
F1-85	27.117	1.099
F1-86	27.354	1.544
F1-87	27.301	1.151
F1-88	27.117	1.099
F1-89	27.117	1.099
F1-90	27.354	1.544
F1-91	27.301	1.151
F1-92	27.117	1.099
F1-93	27.117	1.099
F1-94	27.354	1.544
F1-95	27.301	1.151
F1-96	27.117	1.099
F1-97	27.117	1.099
F1-98	27.354	1.544
F1-99	27.301	1.151
F1-100	27.117	1.099

FOUL SEWER DESIGN TABLES

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
F1.000	F1-0	F1-1	14.499	24.891	24.649	0.242	60	225
F1.001	F1-1	F1-2	20	24.649	24.549	0.1	200	225
F1.002	F1-2	F1-3	21.267	24.549	24.443	0.106	200	225
F1.003	F1-3	F1-4	22.871	24.443	24.329	0.114	200	225
F1.004	F1-4	F1-5	21	24.329	24.149	0.18	200	225
F1.005	F1-5	F1-6	9.003	24.14				