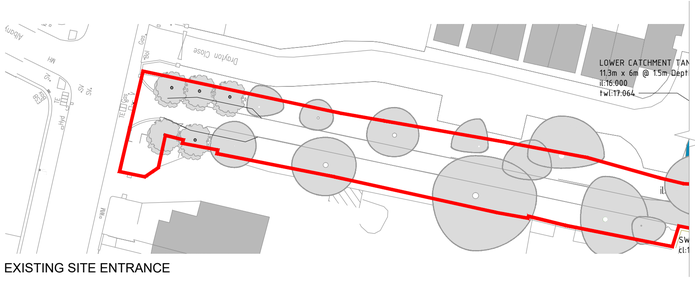
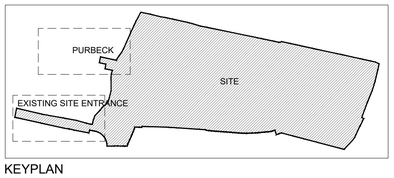
A1



EXISTING SITE ENTRANCE



KEYPLAN

PROPOSED UTILITIES PLAN
SCALE: 1:500

PROPOSED UTILITIES LEGEND

- EXISTING SURFACE WATER MANHOLE — Ex. SW MH
- EXISTING SURFACE WATER PIPE — PIPE DESCRIPTION
- NEW SURFACE WATER MANHOLE — SW MH
- NEW SURFACE WATER PIPE — PIPE DESCRIPTION
- SURFACE ACCESS JUNCTION — AJ
- RAINWATER PIPE — RWP
- ROAD GULLY — RG
- HYDRO-BRAKE MANHOLE
- ACO DRAIN
- NEW PERMEABLE PAVING PIPE

PROPOSED STORM MANHOLE

IDENTITY	COVER LEVEL	DIA. (mm)	EASTING	NORTHING	DEPTH (m)
SWMH-S1	27.000	1200	–	–	1.090
SWMH-S2	26.300	1200	–	–	0.978
SWMH-S3	25.000	1200	–	–	0.759
SWMH-S4	24.500	1200	–	–	1.094
SWMH-S5	24.000	1200	–	–	1.173
SWMH-S6	23.650	1200	–	–	1.176
SWMH-S7	23.450	1200	–	–	1.262
SWMH-S8	26.075	1200/1800	–	–	3.953
SWMH-S9	26.000	1200/1800	–	–	4.131
SWMH-10	27.500	1200/1800	–	–	5.689
SWMH-S11	27.500	1200/1800	–	–	6.140
SWMH-S12	26.900	1200/1800	–	–	5.616
SWMH-S13	26.100	1200/1800	–	–	4.924
SWMH-S14	25.150	1200/1800	–	–	4.144
SWMH-S15	24.450	1200/1800	–	–	3.555
SWMH-S17	23.000	1200	–	–	2.584
SWMH-S18	22.500	1200/1800	–	–	6.617
SWMH-S3A	26.000	1200	–	–	0.600
SWMH-S4B	26.750	1200	–	–	0.900
SWMH-S4A	25.250	1200	–	–	0.910
SWMH-S9B	26.500	1200	–	–	1.500
SWMH-S9A	24.500	1200	–	–	0.992
SWMH-S20C	21.700	1200	–	–	1.225
SWMH-S20B	20.700	1200	–	–	0.349
SWMH-S20A	20.150	1200	–	–	0.600
SWMH-S20	19.200	1200	–	–	1.815
SWMH-S21	19.000	1200	–	–	1.650
SWMH-S18	18.400	1200	–	–	0.800
SWMH-S19	19.000	1200	–	–	1.490
SWMH-S24	16.500	1200	–	–	0.900
SWMH-S16	24.000	1200/1800	–	–	3.364

PROPOSED STORM PIPES

IDENTITY	US NODE	DS NODE	LENGTH (m)	US IL (m)	DS IL (m)	FALL (m)	DROP IL (m)	SLOPE (1/X)	DIA. (mm)	US DEPTH (m)	DS DEPTH (m)
4.000	SWMH-S1	SWMH-S2	51.311	25.910	25.397	0.5130	0.0750	1:100	225	0.8650	0.6780
4.001	SWMH-S2	SWMH-S3	27.017	25.322	24.241	1.0810		1:25	300	0.6780	0.4590
4.002	SWMH-S3	SWMH-S4	10.750	24.399	23.572	0.8270	0.1660	1:13	300	0.3010	0.6280
4.003	SWMH-S4	SWMH-S5	20.650	23.406	22.902	0.5040	0.0750	1:41	300	0.7940	0.7980
4.004	SWMH-S5	SWMH-S6	13.777	22.827	22.474	0.3530		1:39	375	0.7980	0.8010
4.005	SWMH-S6	SWMH-S7	28.562	22.474	22.188	0.2860		1:100	375	0.8010	0.8870
4.006	SWMH-S7	SWMH-S8	45.000	22.188	22.112	0.0760		1:235.6	450	0.8120	3.5130
4.007	SWMH-S8	SWMH-S9	12.454	22.112	21.921	0.1910	0.0520	1:65	450	3.5130	3.6290
4.008	SWMH-S9	SWMH-10	13.734	21.869	21.811	0.0580		1:125	450	3.6810	5.2390
4.009	SWMH-10	UC TANK 1	24.101	21.811	21.711	0.1000	0.1470	1:212.5	450	5.2390	5.8390
2.000	UC TANK 1	SWMH-S11	34.138	21.564	21.360	0.2040		1:167	225	6.2110	5.9150
2.001	SWMH-S11	SWMH-S12	12.679	21.360	21.284	0.0760		1:167	225	5.9150	5.3910
2.002	SWMH-S12	SWMH-S13	18.030	21.284	21.176	0.1080		1:167	225	5.3910	4.6990
2.003	SWMH-S13	SWMH-S14	24.266	21.176	21.031	0.1450	0.0250	1:167.4	225	4.6990	3.8940
2.004	SWMH-S14	SWMH-S15	18.556	21.006	20.895	0.1110		1:167.2	250	3.8940	3.3050
2.005	SWMH-S15	SWMH-S25	19.000	20.895	20.686	0.2090	0.0500	1:91	250	3.3050	3.0640
2.006	SWMH-S25	SWMH-S16	19.975	20.636	20.416	0.2200		1:90.8	300	3.0640	2.2840
2.007	SWMH-S16	SWMH-S17	14.000	20.416	20.157	0.2590	4.2740	1:54	300	2.2840	2.0430
2.008	SWMH-S17	UC TANK 2	23.480	15.883	15.100	0.7830	0.4000	1:30	300	6.3170	0.6000
2.009	UC TANK 2	OUTFALL 1	20.375	14.700	14.466	0.2340		1:87	375	0.9250	0.4090
3.000	SWALE	SWMH-S15	9.448	23.000	22.906	0.0940		1:100	225	1.0250	−1.6310
5.000	SWMH-S3A	SWMH-S3	39.434	25.400	24.409	0.9910		1:28	225	0.3750	0.3660
6.000	SWMH-S4B	SWMH-S4A	14.820	25.850	24.368	1.4820		1:10	225	0.6750	0.6570
6.001	SWMH-S4A	SWMH-S4	11.537	24.368	23.481	0.8870		1:13	225	0.6570	0.7940
7.000	SWMH-S9B	SWMH-S9A	20.500	25.000	23.633	1.3670		1:15	225	1.2750	0.6420
7.001	SWMH-S9A	SWMH-S9	11.742	23.633	23.584	0.0490		1:240	225	0.6420	2.1910
8.000	SWMH-S24	UC TANK 2	14.927	15.600	15.407	0.1930		1:77	225	0.6750	0.3680
1.000	SWMH-S20C	SWMH-S20B	21.000	20.475	20.351	0.1240		1:170	225	1.0000	0.1240
1.001	SWMH-S20B	SWMH-S20A	11.500	20.351	20.294	0.0570	0.7440	1:200	225	0.1240	−0.3690
1.002	SWMH-S20A	SWMH-S20	27.000	19.550	18.650	0.9000	1.2650	1:30	225	0.3750	0.3250
1.003	SWMH-S20	SWMH-S21	7.000	17.385	17.350	0.0350		1:200	300	1.5150	1.3500
1.004	SWMH-S21	LC TANK	7.597	17.350	17.262	0.0880	0.9250	1:86.5	300	1.3500	1.0680
1.005	LC TANK	OUTFALL 2	12.279	16.337	15.674	0.6630		1:40.7	300	1.9930	0.0260
2.000	SWMH-S18	SWMH-S19	18.000	17.600	17.510	0.0900		1:200	225	0.5750	1.2650
2.001	SWMH-S19	SWMH-S20	10.000	17.510	17.460	0.0500		1:200	225	1.2650	1.5150

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHER NOTED
2. ALL LEVELS ARE IN METERS AND RELATE TO THE ORDANCE SURVEY DATUM.
3. FOR LONGSECTION CHAINAGE & LEVELS, REFER TO DWG NO. W3683-DR-1025.
4. FULL DETAIL OF TUNNEL AND SERVICES CO-ORDINATION TO BE PROVIDED WITH FULL PLANNING PERMISSION.
5. ALL PIPE DETAILS SHALL BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER STANDARD DETAILS.
6. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01.
7. PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
8. SHOULD PIPES HAVE MINIMUM COVER OF LESS THAN 800mm, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL.
9. ALL WORKS OUTSIDE OF THE BOUNDARY ARE TO BE CARRIED OUT BY IRISH WATER.
10. WHERE SEPARATION DISTANCE BETWEEN PIPE CROSSINGS ARE LESS THAN 300mm CONCRETE SURROUND IS TO BE PROVIDED IN ACCORDANCE WITH STD-WW-08 OF IRISH WATER CODE OF PRACTICE.
11. GIVEN THE PROXIMITY OF TREES, FOR TREE ROOT PROTECTION, TRENCHLESS ACTIVITIES TO BE CONSIDERED BY CONTRACTOR.
12. THE DESIGN HAS ACCOUNTED FOR SITE SPECIFIC GROUND CONDITIONS, IDENTIFIED FROM THE IGSL GROUND INVESTIGATION REPORT, MAY 2022.
13. ROAD GULLIES WILL CONNECT INTO THE PROPOSED TREE PITS AND FILTER DRAINS AS SHOWN ON DWG W3683-DR-1018. FOR TREE PIT DETAILS SEE DWG W3683-DR-1030.

LEGEND:

- SITE BOUNDARY
- ADJACENT SITE IN OWNERSHIP OF APPLICANT
- OUTLINE OF PROPOSED BUILDINGS
- OUTLINE OF U/G EXCAVATION
- ATTENUATION TANK
- GREEN/BLUE ROOF
- PAVING
- ATS-NETLON OR SIMILAR APPROVED EMERGENCY ACCESS

Rev	Date	Description	By	Chk	App
P0	25/10/22	ISSUE FOR PLANNING	LT	RT	AG

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CLIENT
GEDV MONKSTOWN OWNER LIMITED

PROJECT
RESIDENTIAL DEVELOPMENT ON LANDS OF DALGUISE HOUSE

DRAWING TITLE
PROPOSED UTILITIES PLAN
SURFACE WATER DRAINAGE LAYOUT

STATUS
FOR PLANNING

Date 25/10/22	Scale AS SHOWN	Drawn: LT	Chk: RT	App: AG
Project No: W3683	Drg. No: W3683-DR-1014			Rev: P0