SURFACE WATER PIPES

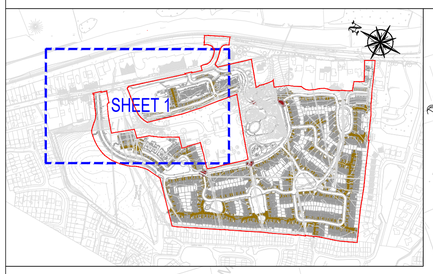
PN	Slope (1:X)	Dia (mm)
2.000	58.1	225
2.001	100.0	225
2.002	100.0	225
2.003	100.0	225
2.003	99.9	225
2.004	100.0	225
2.005	100.1	225
2.006	99.8	225
4.000	100.0	225
4.001	100.0	300
4.002	100.0	300
4.003	100.0	300
4.004	40.1	300
4.005	40.0	300
5.000	39.5	225
4.006	39.0	300
4.007	40.0	300
4.008	25.6	300
4.009	80.0	300
2.007	99.9	375
2.008	99.9	375
2.009	100.1	375
2.010	100.0	375
2.011	150.0	225
2.012	148.6	225
6.000	99.9	225
6.001	94.4	300
7.000	100.0	225
6.002	240.8	300
8.000	58.5	225
5.003	321.7	375
6.004	261.6	375
6.005	378.4	450
6.006	429.1	450
9.000	53.1	225
9.001	34.9	225
9.002	66.6	225
9.003	80.0	300
9.004	126.4	300
10.000	150.0	225
10.001	141.5	225
9.005	179.6	300
11.000	200.4	225
11.001	22.2	225
11.002	23.5	225
9.006	272.4	450
9.007	416.6	450
6.007	103.8	450
6.008	60.0	450
12.000	139.2	300
13.000	119.0	225
13.001	172.7	225
13.002	168.4	225
12.001	254.4	300
14.000	153.0	225
14.001	106.3	300
14.002	245.2	300
12.002	113.8	300
15.000	99.4	225
16.000	161.0	225
16.001	150.0	225
15.001	128.0	300
15.002	82.2	300
17.000	60.0	300
18.000	58.4	225
17.001	150.0	300
17.002	149.3	300
15.003	217.3	375
15.004	205.2	375
15.005	131.8	375
15.006	208.3	450
15.007	400.9	450
12.003	500.0	600
12.004	500.0	600
6.009	63.8	600
6.010	142.4	225
19.000	24.8	300
19.001	33.1	300
19.002	13.5	300
19.003	40.0	300
6.011	414.0	375
6.012	19.8	375
20.000	45.1	225
20.001	22.5	225
20.002	19.6	225
20.003	17.3	225
21.000	88.0	225
21.001	225.8	225
21.002	21.4	225
21.003	23.9	225
22.000	57.7	225
21.004	25.1	225
23.000	200.4	375
23.001	269.8	375
23.002	175.8	375
21.005	172.5	375
20.004	60.1	375
20.005	60.0	375
20.006	60.1	375
20.007	60.0	375
20.008	60.0	375
20.009	300.0	450
20.010	300.0	450
6.013	300.0	525
6.014	300.0	525
6.015	80.1	525
6.016	80.1	525
6.017	79.9	525
6.018	79.9	525
6.019	80.0	525
6.020	80.1	225
6.021	15.6	225
6.022	18.8	225
6.023	29.7	225
6.024	500.0	300
6.025	249.1	300
24.000	36.2	225
24.001	149.5	300
24.002	100.8	375
24.003	248.3	375
25.000	85.7	225
25.001	97.4	225
24.004	150.2	375
24.005	148.8	375
24.006	150.3	375
24.007	149.6	375
6.026	1000.0	600
26.000	150.1	225
26.001	20.0	225
6.027	249.9	225
6.028	248.6	225
6.029	249.9	225

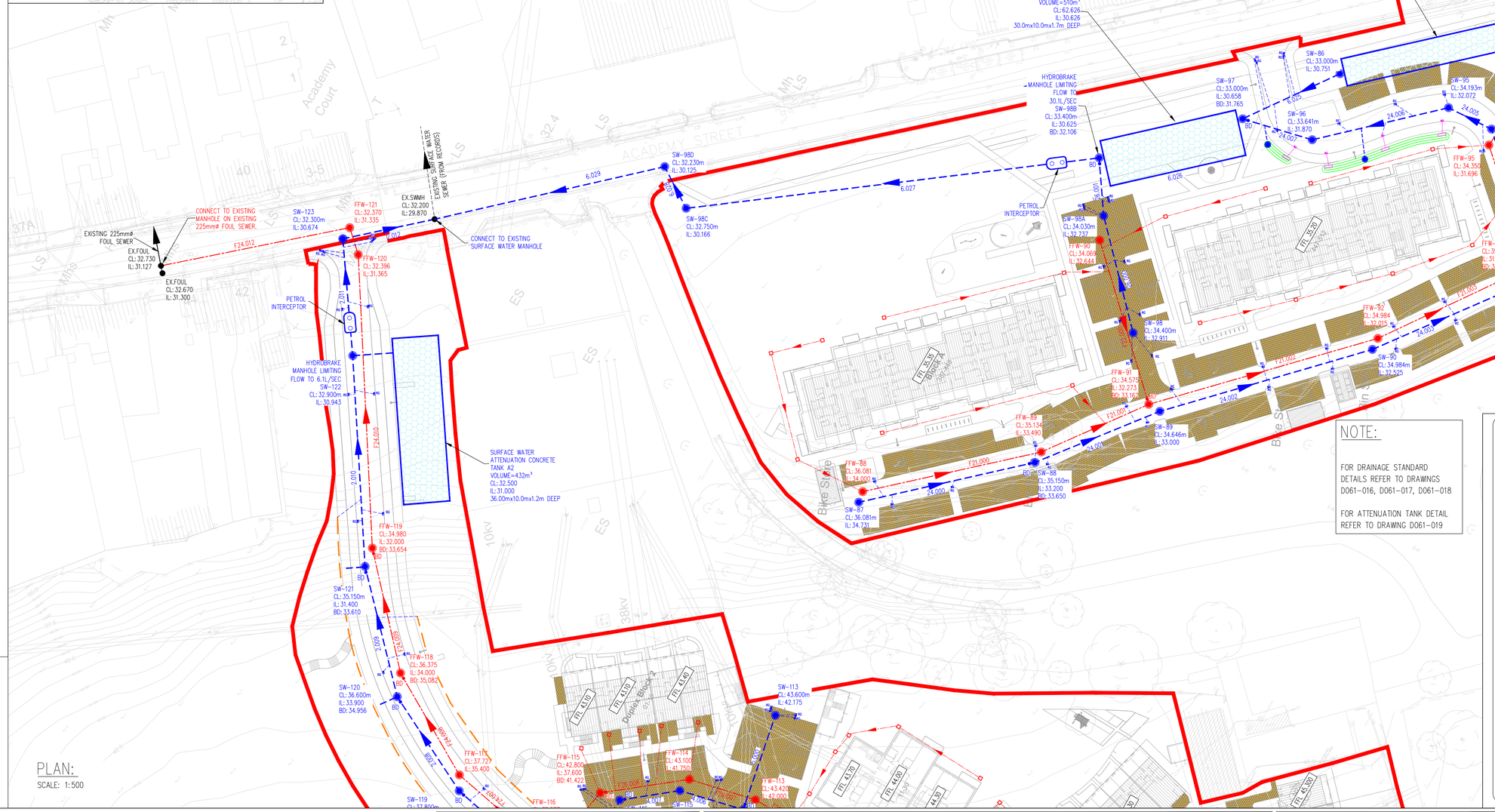
FOUL WATER PIPES

PN	Slope (1:X)	Dia (mm)
F1.000	79.0	150
F2.000	78.9	150
F2.001	79.0	150
F1.001	78.2	225
F3.000	149.6	150
F1.002	200.5	225
F1.003	200.0	225
F4.000	99.8	150
F1.004	200.0	225
F5.000	78.6	150
F1.005	200.0	225
F1.006	200.0	225
F6.000	76.4	150
F7.000	40.0	150
F6.001	150.0	150
F6.002	99.8	225
F6.003	80.0	225
F6.004	80.0	225
F8.000	80.0	150
F8.001	79.9	225
F6.005	70.0	225
F9.000	59.9	150
F6.006	200.0	225
F6.007	200.0	225
F1.007	200.0	225
F1.008	200.0	225
F10.000	200.2	225
F15.001	200.1	225
F10.002	200.0	225
F10.003	200.7	225
F15.004	199.0	225
F11.000	199.9	225
F12.000	79.9	150
F11.001	201.0	225
F11.002	199.7	225
F13.000	199.2	225
F11.003	200.7	225
F11.004	200.0	225
F10.005	132.5	225
F15.006	200.0	225
F10.007	200.0	225
F10.008	200.0	225
F15.009	200.0	225
F14.000	80.1	150
F14.001	199.7	225
F15.000	199.8	225
F14.002	194.1	225
F14.003	100.0	225
F15.010	200.0	225
F10.011	200.0	225
F1.009	199.6	225
F1.010	199.8	225
F16.000	60.0	150
F16.001	40.0	150
F16.002	59.9	225
F16.003	60.5	225
F1.011	100.0	225
F17.000	40.0	150
F17.001	40.0	150
F17.002	40.0	150
F17.003	40.0	150
F18.000	60.0	225
F18.001	60.0	225
F18.002	40.0	225
F19.000	60.0	225
F18.003	40.0	225
F20.000	200.0	225
F20.001	200.0	225
F20.002	200.0	225
F18.004	200.0	225
F17.004	200.0	225
F17.005	200.0	225
F17.006	200.0	225
F17.007	200.0	225
F17.008	200.0	225
F17.009	200.0	225
F17.010	200.0	225
F1.012	199.8	225
F1.013	80.0	225
F1.014	77.9	225
F1.015	77.2	225
F1.016	76.9	225
F1.017	55.1	225
F1.018	77.5	225
F1.019	60.0	225
F1.020	84.9	225
F1.021	57.3	225
F21.000	77.6	225
F21.001	77.5	225
F22.000	100.0	225
F21.002	200.0	225
F21.003	200.0	225
F23.000	100.0	225
F21.004	200.0	225
F21.005	196.7	225
F1.022	100.0	225
F1.023	150.0	225
F1.024	150.0	225
F24.000	79.9	225
F24.001	80.0	225
F24.002	40.0	225
F24.003	40.0	225
F25.000	100.0	225
F24.004	60.0	225
F24.005	60.0	225
F24.006	40.0	225
F26.000	100.0	225
F26.001	100.0	225
F26.002	100.0	225
F26.003	100.0	225
F26.004	60.0	225
F26.005	60.0	225
F26.006	101.5	225
F26.007	60.0	225
F26.008	59.5	225
F26.009	40.0	225
F24.007	100.0	225
F24.008	80.0	225
F24.009	80.0	225
F24.010	100.2	225
F24.011	200.0	225
F24.012	200.4	225

NOTES:

1. ALL LEVELS ARE TO MALIN HEAD ORDNANCE DATUM.
2. REFER TO DRAWING D061-016 FOR MANHOLE DETAILS.
3. REFER TO DRAWING D061-017 FOR PIPE BEDDING DETAILS
4. ALL WORKS IN CONFINED SPACES SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE PROVISIONS ON "SAFE WORK" "IN CONFINED SPACES" CODE OF PRACTICE FOR WORKING IN CONFINED SPACES, PUBLISHED BY THE HEALTH & SAFETY AUTHORITY.
5. ALL SITE DEVELOPMENT WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
6. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, TII PUBLICATIONS SERIES 500, THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS AND THE IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS.
7. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTATION, INCLUDING DRAWINGS AND SPECIFICATIONS.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING ALL EXISTING SERVICES WITHIN THE SITE BOUNDARY AND IN THE AREAS AFFECTED BY THE WORKS. THE ENGINEER HAS PROVIDED INFORMATION ON KNOWN SERVICES BUT GIVES NO GUARANTEE THAT THIS INFORMATION PROVIDED BY THE THIRD PARTIES, IS CORRECT OR THAT THESE ARE THE ONLY SERVICES ON THE SITE.
9. SUITABLE SHORT LENGTHS OF PIPE OR ROCKER PIPES SHALL BE INSTALLED TO PROVIDE A FLEXIBLE JOINT WITHIN 1000MM OF THE OUTER FACE OF THE MANHOLE ON ALL SEWERS AND BRANCHES.
10. WHERE ROCK IS MET IN TRENCHES IT SHALL BE EXCAVATED AND TRIMMED TO 300MM BELOW THE UNDERSIDE OF PIPELINE.
11. GRANULAR MATERIAL 5MM – 20MM NOMINAL SIZE GRADED AGGREGATE (TO COMPLY WITH TABLE 1 OF B5) TO BE USED FOR BEDDING, HAUNCHING AND SURROUND TO PIPES WHERE SPECIFIED.
12. CONCRETE MIX C16/20 TO BE USED FOR BEDDING, HAUNCHING AND SURROUND WHERE SPECIFIED.
13. WHERE RIGID PIPES WITH FLEXIBLE JOINTS ARE USED WITH CONCRETE BEDS FOR DRAINS AND WATERMAINS, VERTICAL MOVEMENT JOINTS SHALL BE PROVIDED IN THE BEDS AT MAX INTERVALS OF 5.0M AND ALIGNED WITH FACE OF PIPE SOCKET. JOINTS TO BE MINIMUM 12M WIDE AND FILLED WITH FLEXCELL OR SIMILAR APPROVED MATERIAL.
14. SURFACE WATER AND FOUL DRAINS SHALL BE SURROUNDED BY 150 THICKNESS OF C16/20 CONCRETE IF COVER TO PIPE IS LESS THAN;–
    –1.2M IN ROADS AND DRIVEWAYS
    –0.9M IN OPEN SPACES AND PATHS NOT NEAR CARRIAGEWAYS.
15. ALL PIPE RUNS SHALL BE LAID IN STRAIGHT LINES BOTH VERTICALLY AND HORIZONTALLY TO THE SPECIFIED GRADIENTS BETWEEN MANHOLES. NO DEVIATIONS OR BENDS SHALL BE PERMITTED.
16. REFER TO "THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS" FOR DETAILS OF SURFACE WATER MANHOLE STANDARDS AND IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS FOR DETAILS OF FOUL MANHOLE STANDARDS..
17. THE CONTRACTOR SHALL CARRY OUT A CCTV SURVEY REPORT OF THE COMPLETED STORM & FOUL NETWORK TO THE SATISFACTION OF THE LOCAL AUTHORITY AND REPORT TO BE ISSUED ON PRACTICAL COMPLETION.
18. THE LOCAL AUTHORITY MUST BE NOTIFIED AT LEAST 10 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORKS.
19. PRIOR TO COMMENCEMENT OF CONSTRUCTION OUTFALL LEVELS FOR THE FOUL AND SURFACE WATER MANHOLES SHALL BE VERIFIED ON SITE.
20. PROPOSED FOUL SEWERS WILL BE EITHER CONCRETE, THERMOSTATIC STRUCTURED WALLED PIPES OR UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE. PROPOSED STORM DRAINS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF MEATH CO. CO.
21. TYPICAL SERVICE LAYOUT DISTANCES (HORIZONTAL AND VERTICAL) AS PER IRISH WATER DETAIL STD–WW–05
22. THE EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS IN PUBLIC ROADS WILL BE A MINIMUM OF 0.5M FROM THE PROPOSED PUBLIC ROAD KERB LINE IN ACCORDANCE WITH SECTION 1.23 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE
23. INSPECTION CHAMBERS TO EACH HOUSE/UNIT TO BE IN ACCORDANCE WITH IRISH WATER DETAIL STD–WW–02 AND STD–WW–03.
24. APPROPRIATE MEASURES ADHERING TO SECTION 3.21 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE WILL BE PROVIDED TO DRAINAGE INFRASTRUCTURE IN CLOSE PROXIMITY TO PLANTING TO PREVENT ANY DAMAGE TO INFRASTRUCTURE VIA ROOT INGRESS OR NEGATIVE IMPACTS TO PLANTING SUCH AS DAMAGE OF TREE ROOTS





PLAN:
SCALE: 1:500

NOTE:

FOR DRAINAGE STANDARD DETAILS REFER TO DRAWINGS D061–016, D061–017, D061–018

FOR ATTENUATION TANK DETAIL REFER TO DRAWING D061–019

LEGEND:

- EXISTING FOUL SEWER — EX. FMH
- EXISTING SURFACE WATER SEWER — EX. SWMH
- PROPOSED FOUL SEWER — FMH1
- PROPOSED SURFACE WATER SEWER — SWMH1
- PROPOSED LAND DRAIN
- PROPOSED ROAD GULLY / PROPOSED LATERAL INLET KERB DETAIL — RG
- PROPOSED FOUL INSPECTION CHAMBER — FIC
- PROPOSED SURFACE WATER INSPECTION CHAMBER — SIC
- PROPOSED FOUL ARMSTRONG JUNCTION — FAJ
- PROPOSED SURFACE WATER ARMSTRONG JUNCTION — SAJ
- PROPOSED PERMEABLE PAVING
- EXISTING GROUND LEVEL — 12.000m (EX.)
- PROPOSED DRY SWALE
- RED LINE BOUNDARY

PIPE MATERIALS
100mmø TO 300mmø PIPES TO BE uPVC TO IS EN 1401 "UD"
375mmø TO 600mmø PIPES TO BE CONCRETE TO IS EN 1916

PLANNING DRAWING
NOT FOR CONSTRUCTION THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

NOTES
1. For setting out refer to Architect's drawings.
2. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
A	01.10.2019	ARCHITECT'S LAYOUT REVISED	JS	NB
B	01.11.2019	ISSUED TO IRISH WATER	DD	RFM
C	05.11.2019	REVISED FOLLOWING COMMENTS FROM IRISH WATER	DD	RFM
D	15.11.2019	ISSUED FOR PLANNING	DD	RFM

Architect	Conroy Crowe Kelly
Project	Belmount
Title	Drainage Layout Sheet 1 of 4

Drn by	Chkd by	Aprvd by	Dwg. No.	Revision
JC	NB	NB	D061/012	D
Date Mar 2019	Scale 1:500 @ A1			

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