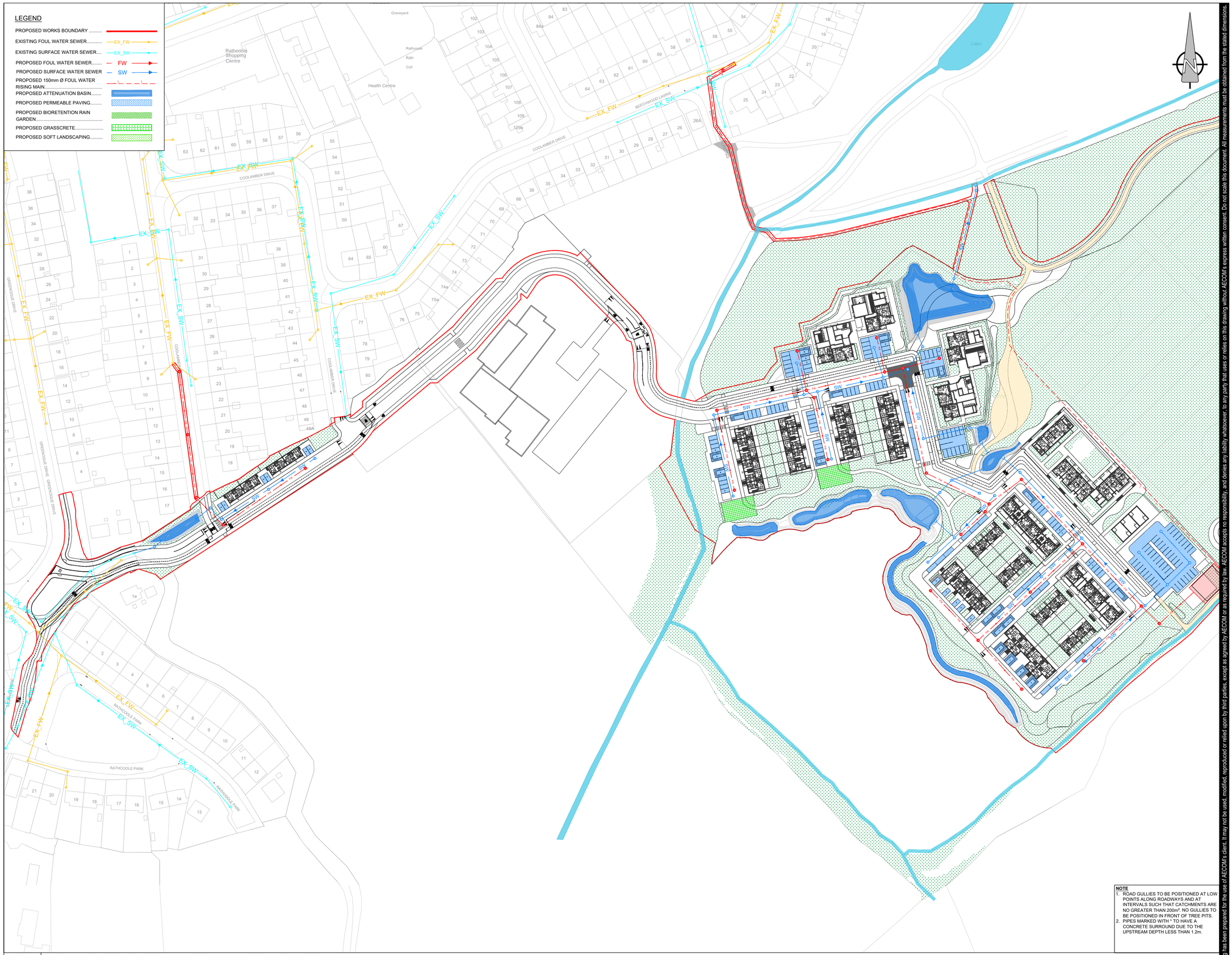
Approved: LS
Checked: SG
Designer: CD
Project Management Initials:



NOTE
1. ROAD GULLIES TO BE POSITIONED AT LOW POINTS ALONG ROADWAYS AND AT INTERVALS SUCH THAT CATCHMENTS ARE NO GREATER THAN 200m². NO GULLIES TO BE POSITIONED IN FRONT OF TREE PITS.
2. PIPES MARKED WITH * TO HAVE A CONCRETE SURROUND DUE TO THE UPSTREAM DEPTH LESS THAN 1.2m.

A | **PROPOSED OVERALL DRAINAGE LAYOUT**

000500 | Scale: 1:1000

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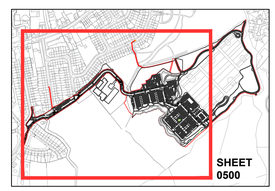
PROJECT
SDCC RATHCOOLE

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8. MANHOLE COVERS AND FRAMES IN PUBLICLY ACCESSIBLE AREAS SHALL BE HEAVY DUTY CAST IRON CLASS D400, DOUBLE SEALED AND LOCKABLE TYPE COMPLYING WITH BS EN 124:2015.
9. GULLY GRATINGS & FRAMES SHALL COMPLY WITH BS EN 124:2015.
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15. ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE UISCE ÉIREANN INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.

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KEY PLAN


ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	07.08.2026	PLANNING ISSUE
0	27/04/2026	ISSUE FOR STAGE 2A

PROJECT NUMBER
60739527

SHEET TITLE
PROPOSED OVERALL DRAINAGE LAYOUT

SHEET NUMBER
RATH-ACM-XX-00-DR-C-000500

Approved: LS
Checked: SG
Designer: CD
Project Management Initials:

DRAINAGE LAYOUT SHEET 1 OF 2.DWG

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C	INSET C
000501	Scale: 1:500

A	PROPOSED DRAINAGE LAYOUT SHEET 1 OF 2 - INSET A
000501	Scale: 1:500

B	PROPOSED DRAINAGE LAYOUT SHEET 1 OF 2 - INSET B
000501	Scale: 1:500

NOTE
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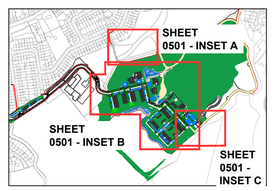
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PROJECT
SDCC RATHCOOLE

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KEY PLAN


AECOM
PLANNING

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	10/08/2026	PLANNING ISSUE
0	07/07/2026	ISSUE FOR COORDINATION

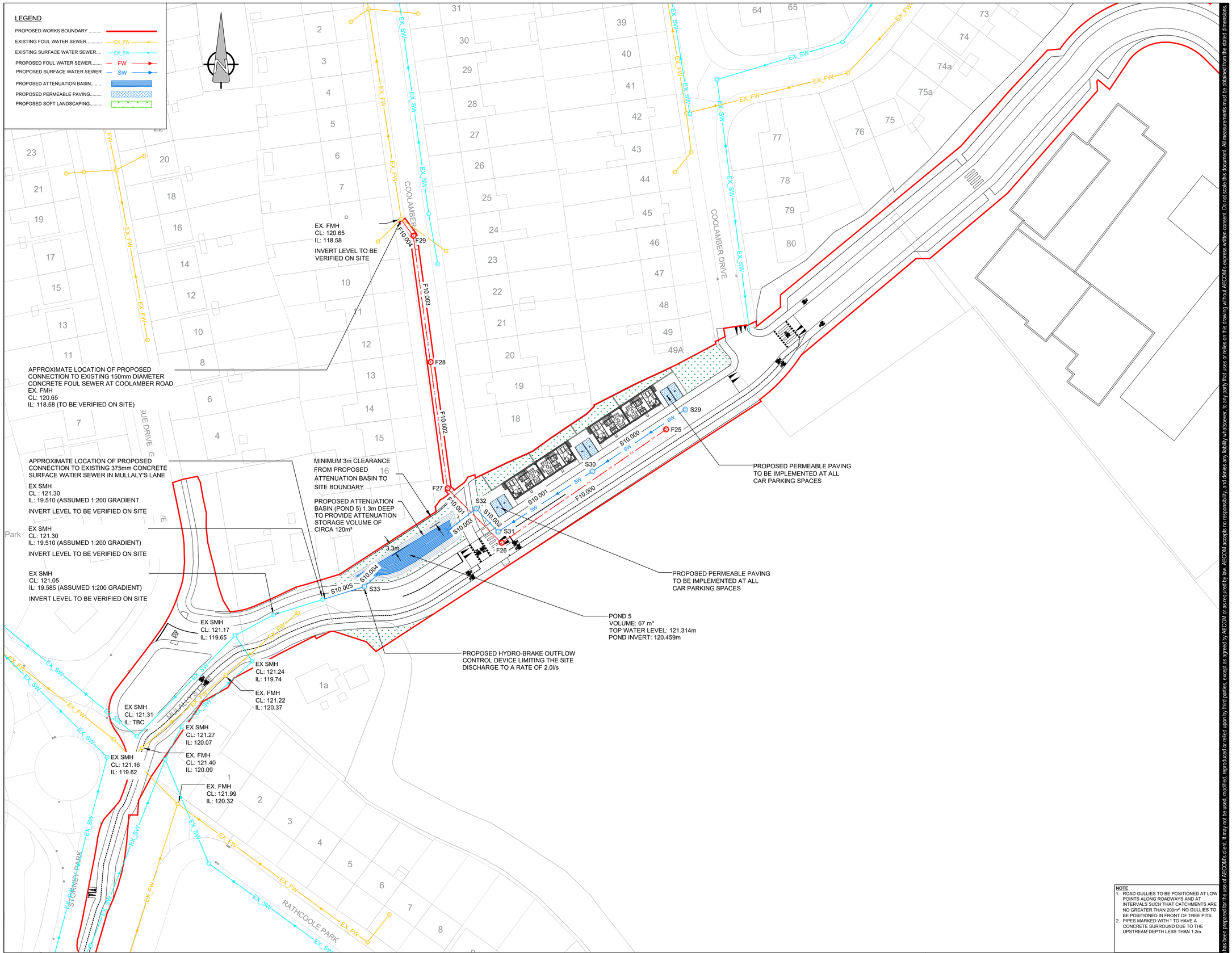
PROJECT NUMBER
60739527

SHEET TITLE
PROPOSED DRAINAGE LAYOUT SHEET 1 OF 2

SHEET NUMBER
RATH-ACM-XX-00-DR-C-000501

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Project Management Initials: Designer: CD Checked: SG Approved: LS



A PROPOSED DRAINAGE LAYOUT SHEET 2 OF 2

000502

Scale: 1:500

NOTE
1. ROAD GULLIES TO BE POSITIONED AT LOW POINTS ALONG ROADWAYS AND AT INTERVALS SUCH THAT CATCHMENTS ARE NO GREATER THAN 200m². NO GULLIES TO BE POSITIONED IN FRONT OF TREE PITS.
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PROJECT

SDCC RATHCOOLE

CLIENT

SOUTH DUBLIN COUNTY COUNCIL

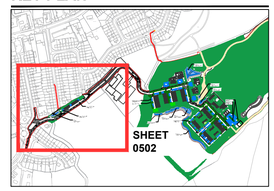
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KEY PLAN



AECOM
PLANNING

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	10/08/2026	UPDATED COORDINATION ISSUE
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PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED DRAINAGE LAYOUT
SHEET 2 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-000502

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Project Management Initials: Designer: CD Checked: SG Approved: LS

SURFACE WATER NETWORK DETAILS

Pipe Number	US MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe Diameter (mm)	US Cover Depth (m)
S1.000	S1	41.896	0.210	199.5	123.180	122.970	125.170	225	1.765
S1.001	S2	36.550	0.182	200.8	122.970	122.788	124.301	225	1.106*
S2.000	S3	17.638	0.059	298.9	122.750	122.691	124.410	300	1.360
S1.002	S4	53.273	0.118	450.0	122.563	122.445	124.234	450	1.221
S2.001	S5	45.406	0.396	114.6	123.321	122.925	124.851	150	1.380
S2.002	S6	31.739	0.372	85.3	122.925	122.553	124.115	225	0.965*
S1.003	S7	51.880	0.116	448.7	122.445	122.329	123.633	450	0.738*
S1.004	S8	14.900	0.033	450.0	122.329	122.296	124.003	450	1.224
S1.005	POND 1	10.885	0.029	375.0	122.296	122.267	124.083	375	1.412
S3.000	S9	32.034	0.235	136.3	123.457	123.222	124.692	225	1.010*
S4.000	S10	23.221	0.129	180.0	123.426	123.297	124.273	225	0.622*
S3.001	S11	19.786	0.111	178.3	123.222	123.111	124.559	300	1.037*
S3.002	POND 2	8.139	0.054	151.3	123.111	123.057	123.376	225	N/A
S3.003	S12	9.828	0.066	148.9	123.057	122.991	124.109	225	0.827*
S5.000	S13	19.028	0.220	86.4	123.211	122.991	124.261	150	0.900*
S3.004	S14	10.554	0.143	73.6	122.991	122.848	124.146	225	0.930*
S1.006	POND 3	8.737	0.023	375.0	122.267	122.244	123.180	375	N/A
S1.007	S15	22.159	0.059	375.0	122.244	122.185	123.997	375	1.378
S1.008	S16	45.143	0.121	374.3	122.185	122.064	124.008	375	1.448
S6.000	S17	47.980	0.281	171.0	123.841	123.560	125.266	225	1.200
S6.001	S18	53.163	0.625	85.1	123.560	122.935	126.103	225	2.318
S7.000	S19	18.542	0.949	19.5	123.277	122.328	124.390	150	0.963*
S6.002	S20	8.022	0.047	171.0	122.935	122.888	124.360	225	1.200
S8.000	S21	39.566	1.417	27.9	123.698	122.281	124.748	150	0.900*
S6.003	S22	38.780	0.410	94.6	122.813	122.403	124.350	300	1.237
S9.000	S23	17.920	0.888	20.2	123.012	122.124	124.138	150	0.976*
S6.004	S24	14.930	0.339	44.0	122.403	122.064	123.903	300	1.200
S1.009	S25	10.083	0.027	375.0	122.064	122.037	123.746	375	1.307
S1.010	S26	10.836	0.036	300.0	122.037	122.001	123.728	375	1.316
S1.011	POND 4	7.052	0.035	201.5	121.800	121.765	123.000	225	0.975*
S1.012	S27	54.226	0.317	272.5	121.765	121.448	123.000	225	1.010*
S10.000	S29	32.082	0.143	225.0	120.305	120.162	121.897	375	1.217
S10.001	S30	32.612	0.145	225.0	120.162	120.017	121.742	375	1.205
S10.002	S31	9.262	0.041	225.0	120.017	119.976	121.573	375	1.181*
S10.003	S32	5.852	0.016	225.0	119.976	119.960	121.431	375	1.080*
S10.004	POND 5	9.663	0.048	201.9	119.950	119.902	121.364	225	1.189*
S10.005	S33	12.062	0.060	200.0	119.902	119.842	121.319	225	1.192*

FOUL WATER NETWORK DETAILS

Pipe Number	US MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe Diameter (mm)	US Cover Depth (m)
F1.000	F1	45.895	0.229	200.4	121.666	121.437	124.542	225	2.651
F1.001	F2	49.226	0.246	200.1	121.683	121.437	123.620	225	1.712
F1.002	F7	51.112	0.256	199.7	121.939	121.683	124.101	225	1.937
F1.003	F8	23.369	0.116	200.4	122.055	121.939	124.327	225	2.047
F1.004	F11	40.254	0.202	199.3	122.257	122.055	124.077	225	1.595
F1.005	F12	61.913	0.309	200.4	122.566	122.257	123.766	225	0.975
F1.006	F14	10.485	0.138	76.0	122.704	122.566	123.904	225	0.975
F1.007	F16	46.303	0.394	117.5	123.098	122.704	124.328	225	1.005
F1.008	F21	23.178	0.116	199.8	123.214	123.098	124.414	225	0.975
F1.009	F22	14.490	0.156	93.0	121.437	121.281	124.219	225	2.557
F2.000	F4	39.474	0.197	200.4	122.289	122.092	124.776	225	2.262
F2.001	F5	40.945	0.205	199.7	122.092	121.887	124.948	225	2.631
F2.002	F6	40.792	0.204	200.0	121.887	121.683	124.304	225	2.192
F3.000	F3	37.674	0.188	200.4	122.280	122.092	125.168	225	2.663
F4.000	F9	19.274	0.097	198.7	122.176	122.079	124.554	225	2.153
F4.001	F10	4.848	0.024	202.0	122.079	122.055	124.365	225	2.061
F5.000	F13	21.915	0.110	200.0	122.676	122.566	123.849	225	0.948
F6.000	F15	20.295	0.102	200.0	122.806	122.704	124.208	225	1.177
F7.000	F17	36.465	0.182	200.0	123.311	123.129	124.710	225	1.174
F7.001	F18	6.174	0.031	200.1	123.129	123.098	124.352	225	0.999
F8.000	F19	47.063	0.235	200.0	123.597	123.362	125.351	225	1.529
F8.001	F20	52.747	0.264	200.0	123.362	123.098	125.977	225	2.390
F1.010	F24	7.131	0.036	200.0	121.596	121.560	122.730	225	0.909*
F10.000	F25	57.299	0.955	60.0	120.538	119.583	121.888	150	1.200
F10.001	F26	22.074	0.293	75.3	119.583	119.290	121.569	150	1.836
F10.002	F27	36.636	0.244	150.0	119.215	118.971	121.000	225	1.560
F10.003	F28	36.612	0.244	150.0	118.971	118.727	120.750	225	1.554
F10.004	F29	6.112	0.041	150.0	118.727	118.686	120.650	225	1.698

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A	PROPOSED DRAINAGE TABLES
000503	Scale: AS SHOWN

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NOTES

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5. DO NOT SCALE, ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
6. EXISTING SERVICES INFORMATION ON THIS DRAWING HAS BEEN BASED ON THE TOPOGRAPHICAL SURVEY FOR THE SITE CARRIED OUT BY MURPHY GEOSPATIAL ON 28/08/2025.
7. THE LOCATION & DEPTH OF SERVICES TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS.
8. MANHOLE COVERS AND FRAMES IN PUBLICLY ACCESSIBLE AREAS SHALL BE HEAVY DUTY CAST IRON CLASS D400, DOUBLE SEALED AND LOCKABLE TYPE COMPLYING WITH BS EN 124:2015.
9. GULLY GRATINGS & FRAMES SHALL COMPLY WITH BS EN 124:2015.
10. EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.
11. SURFACE WATER & FOUL SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE OR LESS THAN 0.9m IN NON-TRAFFICKED FOOTPATHS AND LANDSCAPE AREAS (WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE Ø750mm) SHALL BE PROTECTED FROM DAMAGE BY PROVIDING MINIMUM 150mm THICK CONCRETE C16/20 HAUNCH IN ACCORDANCE WITH IS EN 12620.
12. ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
13. CCTV SURVEY TO BE CONDUCTED PRIOR TO COMMENCEMENT OF ANY WORKS TO DETERMINE THE CONDITION AND VERIFY LEVELS OF THE EXISTING FOUL AND SURFACE WATER PIPES/ MANHOLES. ANY SUB-STANDARD OR DEFECTIVE ELEMENTS OF THE EXISTING PIPES/MANHOLES TO BE REPORTED AND CORRECTED.
14. ALL SURFACE WATER DRAINAGE DETAILS TO BE IN ACCORDANCE WITH THE GREATER DUBLIN STRATEGIC DRAINAGE STUDY AND THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
15. ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE UISCE ÉIREANN INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.

AECOM
PLANNING

ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	09.10.202	PLANNING ISSUE

PROJECT NUMBER

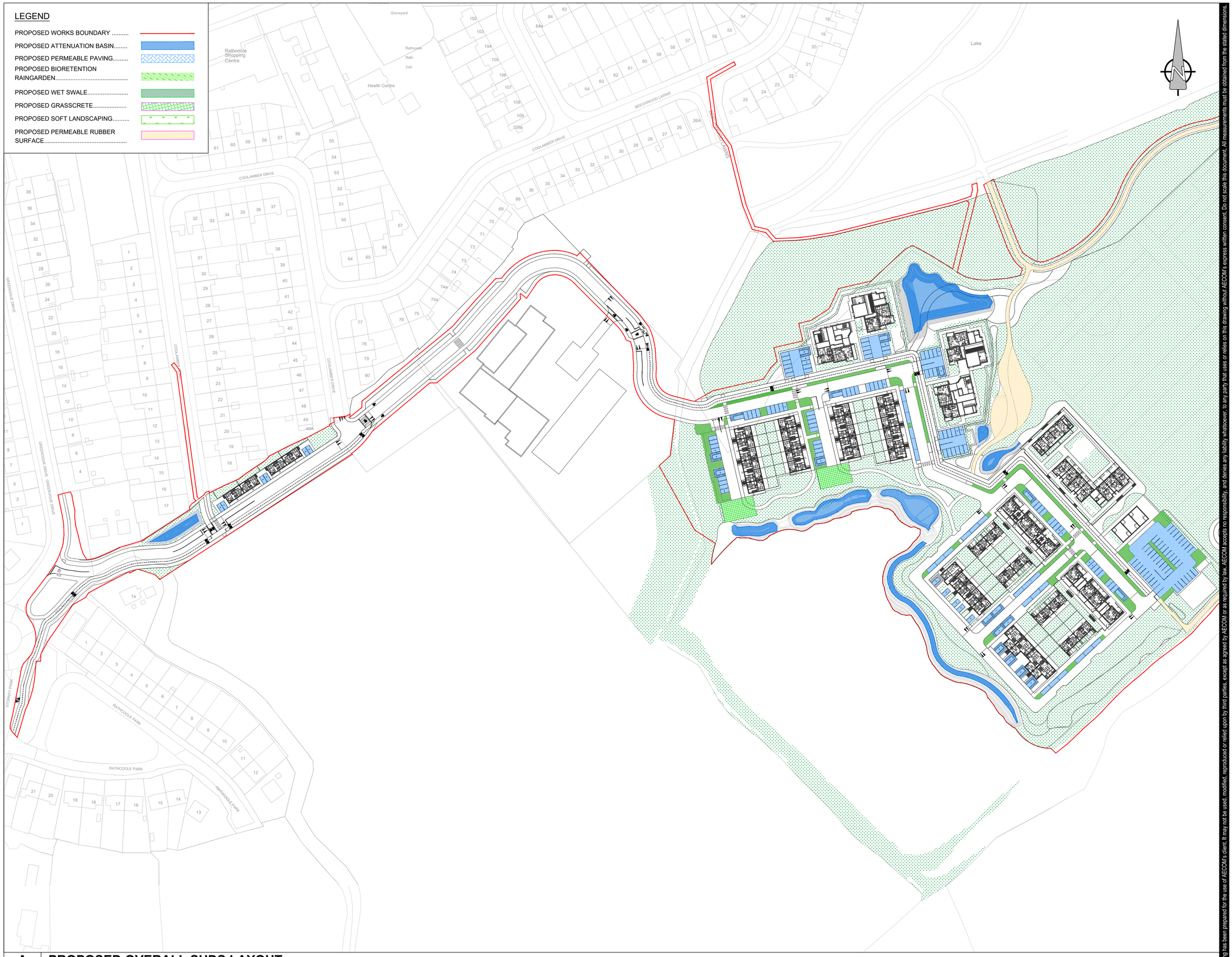
60739527

SHEET TITLE

PROPOSED DRAINAGE TABLES

SHEET NUMBER

RATH-ACM-XX-00-DR-C-000503


LEGEND
PROPOSED WORKS BOUNDARY .....
PROPOSED ATTENUATION BASIN.....
PROPOSED PERMEABLE PAVING.....
PROPOSED BIORETENTION RAINGARDEN.....
PROPOSED WET SWALE.....
PROPOSED GRASSCRETE.....
PROPOSED SOFT LANDSCAPING.....
PROPOSED PERMEABLE RUBBER SURFACE.....
Graveyard
Rathcoole Shopping Centre
Rathcoole Rath Cuil
Health Centre
Lake
BEECHWOOD LAWNS
COOLAMBER DRIVE
GREENDALE DRIVE
RATHCOOLE PARK
RATHCOOLE PARK
RATHCOOLE PARK

Project Management Initials: Designer: KM Checked: SG Approved: LS

LEGEND

- PROPOSED WORKS BOUNDARY .....
- PROPOSED ATTENUATION BASIN.....
- PROPOSED PERMEABLE PAVING.....
- PROPOSED BIORETENTION RAINGARDEN.....
- PROPOSED WET SWALE.....
- PROPOSED GRASSCRETE.....
- PROPOSED SOFT LANDSCAPING.....
- PROPOSED PERMEABLE RUBBER SURFACE.....

VOLUME: 928 m³
TOP WATER LEVEL: 122.735 m
POND INVERT: 121.235 m

POND 3
VOLUME: 13 m³
TOP WATER LEVEL: 123.635 m
POND INVERT: 122.860 m

POND 2
VOLUME: 25 m³
TOP WATER LEVEL: 123.635 m
POND INVERT: 123.000 m

PROPOSED PERMEABLE PAVING TO BE IMPLEMENTED AT ALL CAR PARKING SPACES

PROPOSED BIORETENTION RAINGARDEN

PROPOSED BIORETENTION RAINGARDEN

PROPOSED PERMEABLE PAVING TO BE IMPLEMENTED AT ALL CAR PARKING SPACES

POND 1
VOLUME: 110 m³
TOP WATER LEVEL: 124.200 m
POND INVERT: 123.402 m

POND 1
VOLUME: 174 m³
TOP WATER LEVEL: 123.630 m
POND INVERT: 122.894 m

VOLUME: 43 m³
TOP WATER LEVEL: 124.493 m
POND INVERT: 123.797 m

PROPOSED PERMEABLE PAVING TO BE IMPLEMENTED AT ALL CAR PARKING SPACES

VOLUME: 50 m³
TOP WATER LEVEL: 124.361 m
POND INVERT: 124.061 m

A	PROPOSED SUDS LAYOUT - SHEET 1 OF 2
000521	Scale: 1:500

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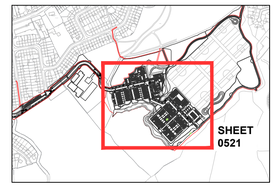
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KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	07.08.2026	PLANNING ISSUE
0	27/04/2026	ISSUE FOR STAGE 2A

PROJECT NUMBER

60739527

SHEET TITLE

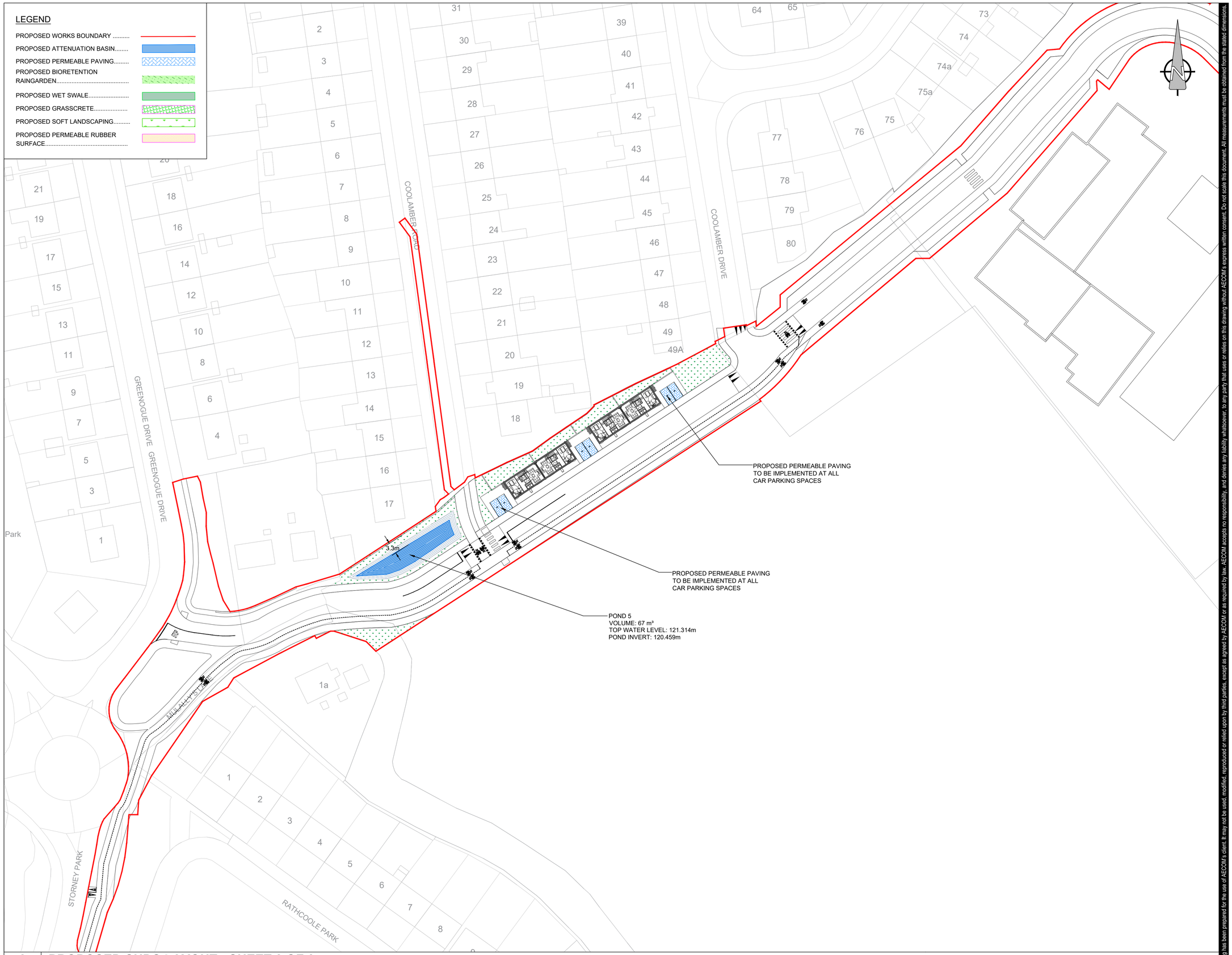
PROPOSED SUDS LAYOUT
SHEET 1 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-000521

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A	PROPOSED SUDS LAYOUT - SHEET 2 OF 2
000522	Scale: 1:500

Project Management Initials: Designer: KM Checked: SG Approved: LS

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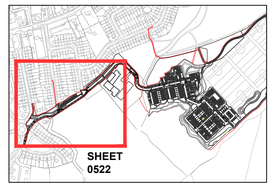
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KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	07.08.2026	PLANNING ISSUE
0	27/04/2026	ISSUE FOR STAGE 2A

PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED SUDS LAYOUT
SHEET 2 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-000522

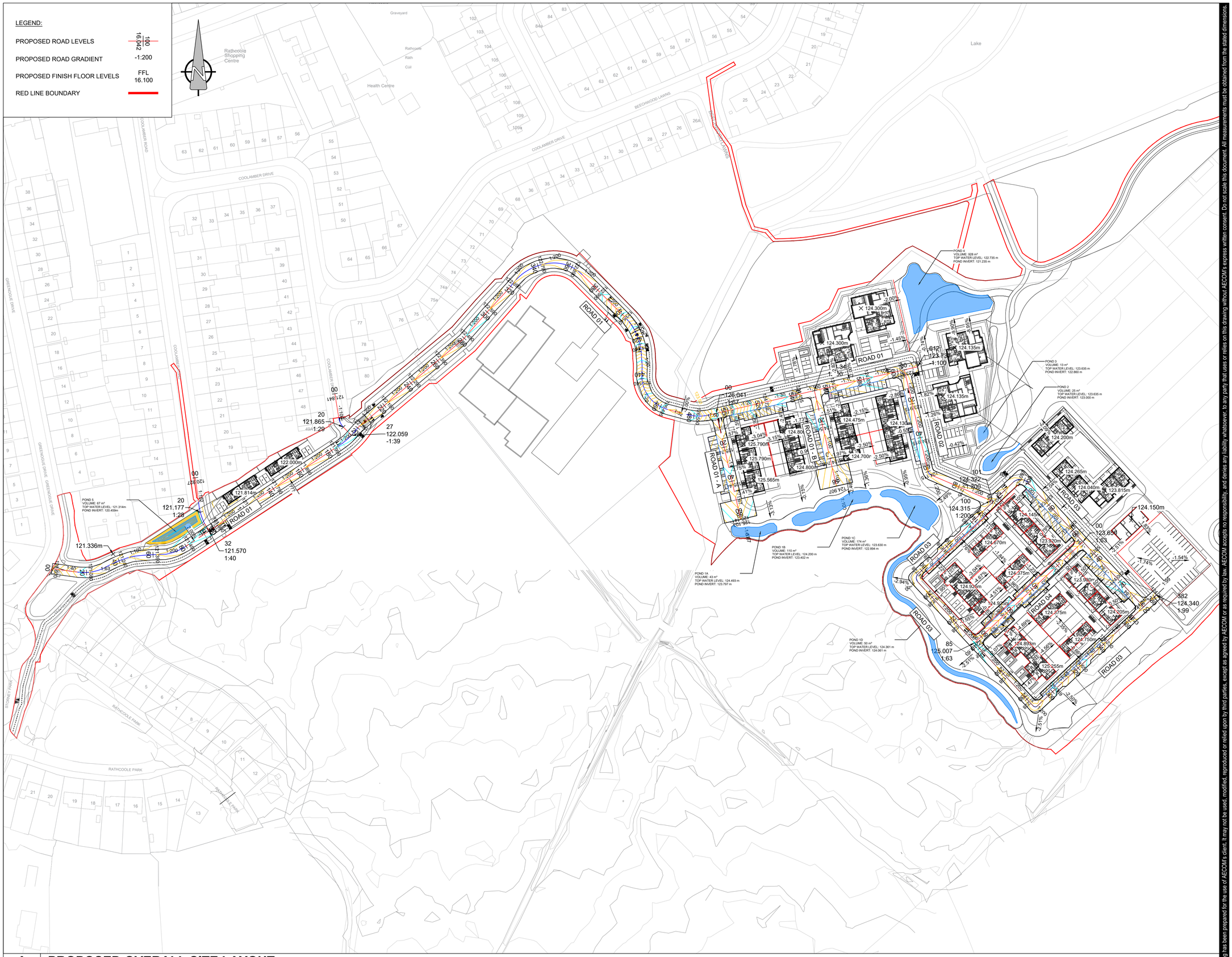
LEGEND:

PROPOSED ROAD LEVELS — 16.042 / 100

PROPOSED ROAD GRADIENT — -1:200

PROPOSED FINISH FLOOR LEVELS — FFL 16.100

RED LINE BOUNDARY



A — PROPOSED OVERALL SITE LAYOUT

0600 — Scale: 1:1000

Approved: LS
Checked: SG
Designer: PM
Project Management Initials:

Last saved by: MURRAYPS(2026-10-07) Last Plotted: 2026-10-14
Filename: C:\USERS\KARL.MULLIGAN\ONEDRIVE - AECOM\SDCC RATH - GENERAL\900_CAD_GIS\904_CE\01_WIP\02_SHEETS\RATH-ACM-XX-00-DR-C-000600 - PROPOSED OVERALL SITE LAYOUT.DWG

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FOR COMMENT

KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	07.08.2026	PLANNING ISSUE
0	19.09.2025	ISSUE FOR STAGE 1B

PROJECT NUMBER

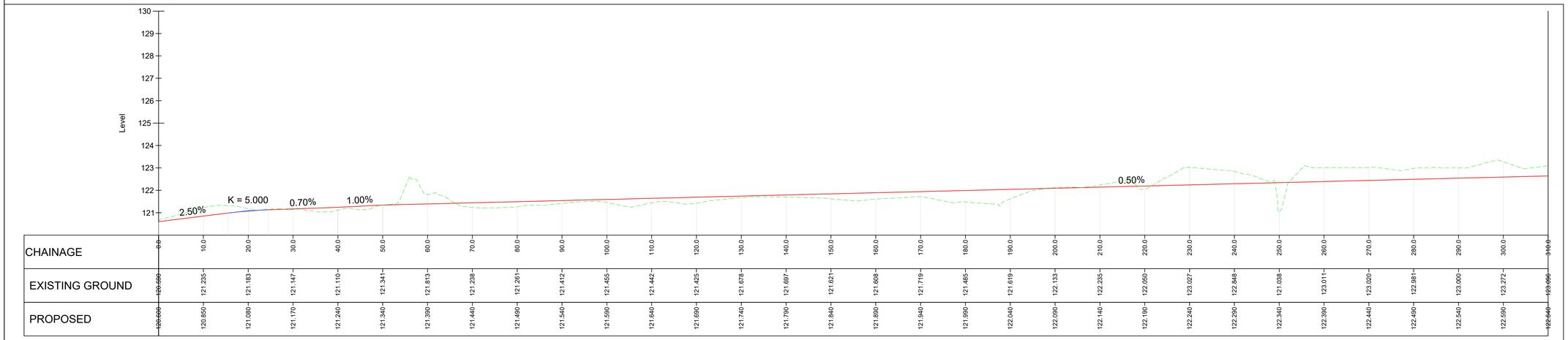
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SHEET TITLE

PROPOSED OVERALL SITE LAYOUT

SHEET NUMBER

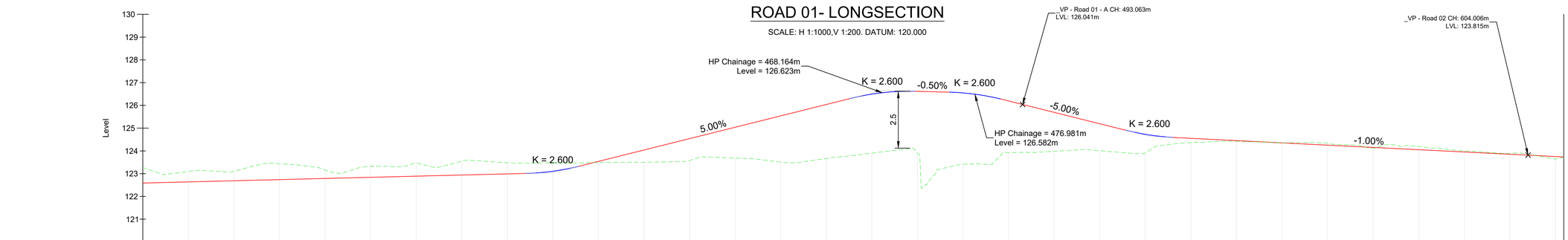
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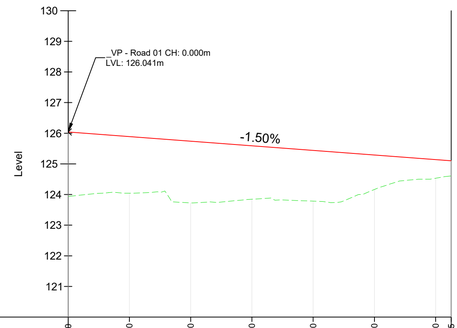
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EXISTING GROUND	120.590	121.235	121.183	121.147	121.110	121.341	121.813	121.238	121.261	121.412	121.455	121.442	121.425	121.678	121.697	121.621	121.608	121.719	121.485	121.619	122.133	122.235	122.050	123.027	122.848	121.038	123.011	123.020	122.981	123.000	123.272	123.096
PROPOSED	120.606	120.850	121.080	121.170	121.240	121.340	121.390	121.440	121.490	121.540	121.590	121.640	121.690	121.740	121.790	121.840	121.890	121.940	121.990	122.040	122.090	122.140	122.190	122.240	122.290	122.340	122.390	122.440	122.490	122.540	122.590	122.640

ROAD 01- LONGSECTION

SCALE: H 1:1000,V 1:200. DATUM: 120.000



CHAINAGE	300.0	310.0	320.0	330.0	340.0	350.0	360.0	370.0	380.0	390.0	400.0	410.0	420.0	430.0	440.0	450.0	460.0	470.0	480.0	490.0	500.0	510.0	520.0	530.0	540.0	550.0	560.0	570.0	580.0	590.0	600.0	610.0	611.8
EXISTING GROUND	123.272	123.096	123.102	123.434	123.163	123.322	123.463	123.554	123.479	123.480	123.496	123.504	123.573	123.685	123.512	123.669	123.902	123.897	123.413	123.924	123.983	124.009	123.909	124.361	124.421	124.352	124.345	124.128	124.192	124.002	123.898	123.649	123.736
PROPOSED	122.590	122.640	122.690	122.740	122.790	122.840	122.890	122.940	122.990	123.106	123.540	124.040	124.540	125.040	125.540	126.040	126.495	126.617	126.550	126.194	125.694	125.194	124.728	124.555	124.455	124.355	124.255	124.155	124.055	123.955	123.855	123.755	123.737



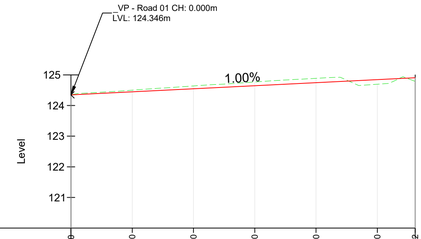
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EXISTING GROUND	123.935	124.042	123.727	123.846	123.784	124.166	124.531	124.606
PROPOSED	126.041	125.891	125.741	125.591	125.441	125.291	125.141	125.103

ROAD 01_A - LONGSECTION

SCALE: H 1:1000,V 1:200. DATUM: 120.000

ROAD 01- LONGSECTION CONT'D

SCALE: H 1:1000,V 1:200. DATUM: 120.000



CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	56.2
EXISTING GROUND	124.347	124.501	124.638	124.769	124.888	124.696	124.788
PROPOSED	124.346	124.446	124.546	124.646	124.746	124.846	124.907

ROAD 01_B- LONGSECTION

SCALE: H 1:1000,V 1:200. DATUM: 120.000

A **PROPOSED LONGITUDINAL SECTIONS SHEET 1 OF 2**

0601 Scale: 1:1000

Project Management Initials: Designer: PM Checked: SG Approved: LS

Last saved by: MURRAYPS(2026-10-07) Last Plotted: 2026-10-14
Filename: C:\USERS\KARL.MULLIGAN\ONEDRIVE - AECOM\SDCC RATH - GENERAL\900_CAD_GIS\904_CE\01_WIP\02_SHEETS\RATH-ACM-XX-00-DR-C-000601 - PROPOSED LONGITUDINAL SECTIONS.DWG

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FOR COMMENT

KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	09.10.2026	PLANNING ISSUE
0	19.09.2025	ISSUE FOR STAGE 1B

PROJECT NUMBER

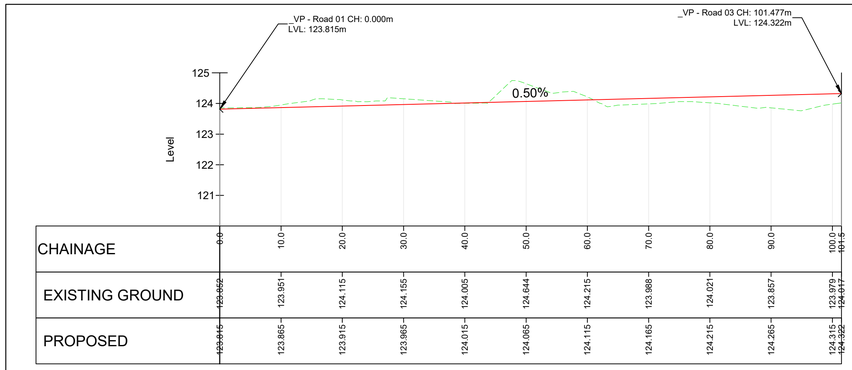
60739527

SHEET TITLE

PROPOSED LONGGITUDINAL SECTIONS SHEET 1 OF 2

SHEET NUMBER

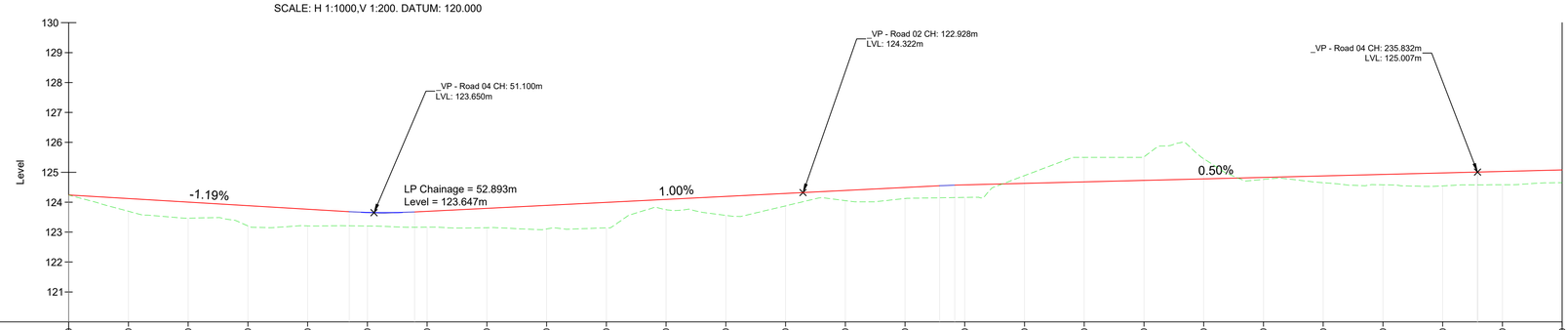
RATH-ACM-XX-00-DR-C-000601



CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0 101.5
EXISTING GROUND	123.802	123.951	124.115	124.165	124.005	124.644	124.215	123.988	124.021	123.857	123.979 124.017
PROPOSED	123.815	123.865	123.915	123.965	124.015	124.065	124.115	124.165	124.215	124.265	124.315 124.322

ROAD 02 - LONGSECTION

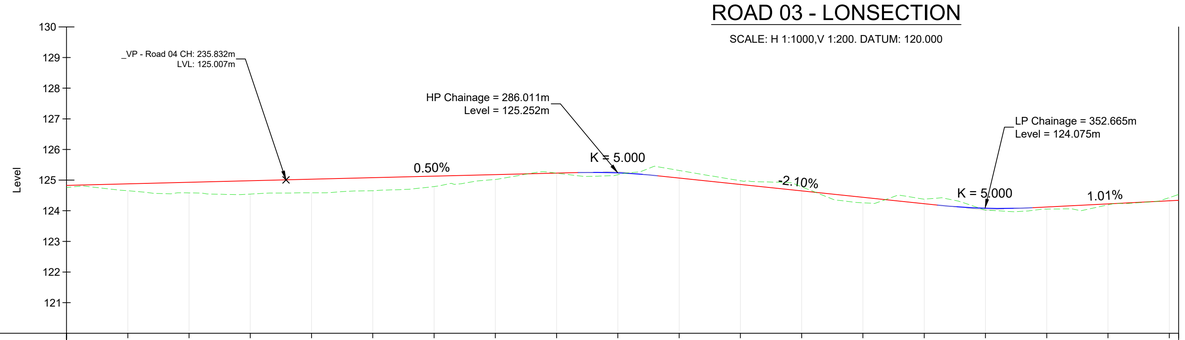
SCALE: H 1:1000,V 1:200. DATUM: 120.000



CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0	200.0	210.0	220.0	230.0	240.0	250.0
EXISTING GROUND	124.240	123.696	123.467	123.208	123.207	123.202	123.164	123.148	123.106	123.142	123.750	123.559	123.878	124.054	124.125	124.159	124.890	125.500	125.513	125.454	124.761	124.651	124.582	124.544	124.585	124.653
PROPOSED	124.240	124.121	124.002	123.883	123.765	123.655	123.693	123.793	123.893	123.993	124.093	124.193	124.293	124.393	124.493	124.578	124.628	124.678	124.728	124.778	124.828	124.878	124.928	124.978	125.028	125.078

ROAD 03 - LONSECTION

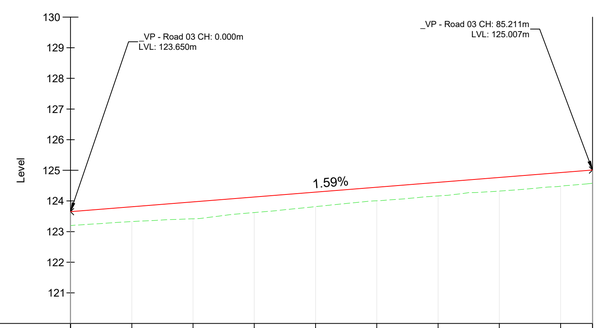
SCALE: H 1:1000,V 1:200. DATUM: 120.000



CHAINAGE	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0	300.0	310.0	320.0	330.0	340.0	350.0	360.0	370.0	380.0 381.5
EXISTING GROUND	124.761	124.651	124.582	124.544	124.585	124.653	124.791	125.020	125.227	125.176	125.316	124.979	124.781	124.260	124.378	124.021	124.053	124.191	124.428 124.580
PROPOSED	124.809	124.878	124.928	124.978	125.028	125.078	125.128	125.178	125.228	125.236	125.069	124.859	124.650	124.440	124.230	124.082	124.123	124.224	124.324 124.340

ROAD 03 - LONGSECTION CONT'D

SCALE: H 1:1000,V 1:200. DATUM: 120.000



CHAINAGE	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0 85.2
EXISTING GROUND	123.650	123.328	123.417	123.621	123.815	124.004	124.163	124.323	124.480 124.579
PROPOSED	123.650	123.809	123.969	124.128	124.287	124.447	124.606	124.765	124.924 125.007

ROAD 04 - LONGSECTION

SCALE: H 1:1000,V 1:200. DATUM: 120.000

A | **PROPOSED LONGITUDINAL SECTIONS SHEET 2 OF 2**

0602 | Scale: 1:1000

Approved: LS
Checked: SG
Designer: PM
Project Management Initials:

Last saved by: MURRAYPS (2026-10-07) Last Plotted: 2026-10-14
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PROJECT

SDCC RATHCOOLE

CLIENT

SOUTH DUBLIN COUNTY COUNCIL

CONSULTANT

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6. DO NOT SCALE, ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
7. FOR DETAILS OF SURFACE FINISHES & MATERIALS REFER TO ARCHITECTS DRAWINGS.

AECOM
FOR COMMENT

KEY PLAN



ISSUE/REVISION

1	09.10.2026	PLANNING ISSUE
0	19.09.2025	ISSUE FOR STAGE 1B
I/R	DATE	DESCRIPTION

PROJECT NUMBER

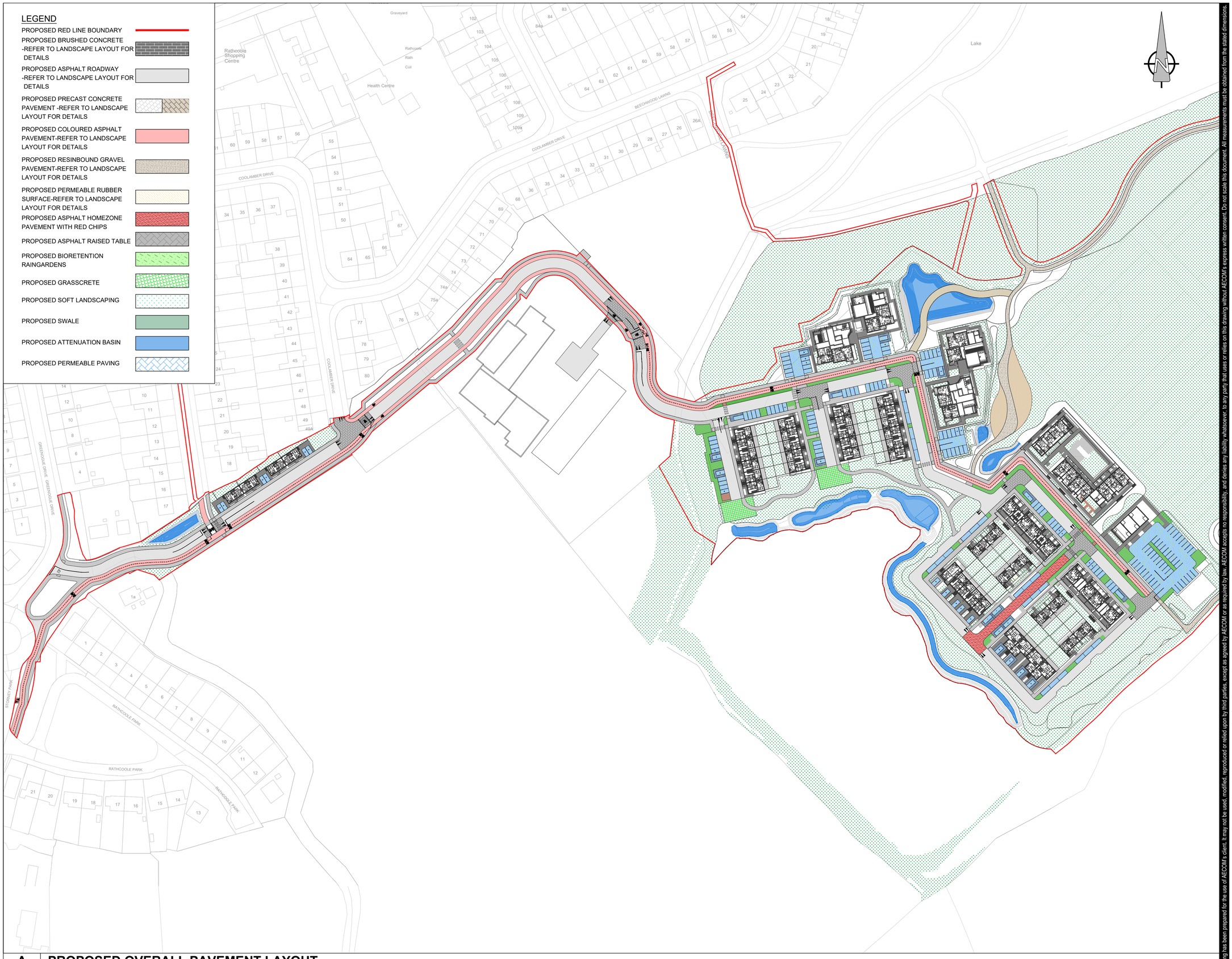
60739527

SHEET TITLE

PROPOSED LONGITUDINAL SECTIONS SHEET 2 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-000602



Approved: LS
Checked: SG
Designer: KM
Project Management Initials:

Last saved by: KARL.MULLIGAN(2026-10-07) Last Plotted: 2026-10-07
Filename: C:\USERS\KARL.MULLIGAN\ONEDRIVE - AECOM\SDCC RATH - GENERAL\900_CAD_GIS\904_CE\01_WIP\02_SHEETS\RATH-ACM-XX-00-DR-C-001100 - PROPOSED OVERALL PAVEMENT LAYOUT.DWG

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A	PROPOSED OVERALL PAVEMENT LAYOUT
001100	Scale: 1:1000

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PROJECT

SDCC RATHCOOLE

CLIENT

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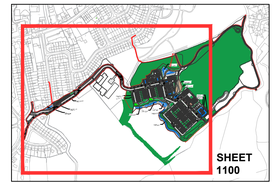
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6. CONCRETE FOOTWAY JOINTS SHALL BE STRAIGHT, AT MAX 3m CENTRES. SAW JOINTS AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY, TO A DEPTH OF 40mm, BEFORE RANDOM CRACKING OCCURS. JOINTS SHALL ALIGN WITH ADJOINING CHANNEL/ROAD JOINTS.
7. EXPANSION JOINTS SHALL BE PROVIDED AT NO GREATER THAN 50m CENTRES AND SHALL EXTEND THE FULL WIDTH OF THE FOOTWAY.
8. CONCRETE FOOTWAY SHALL HAVE A XF4 MIX DESIGN WITH AN APPROVED FINISH. CURING OF THE FOOTWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH TII SPW CLAUSE
9. ALL WORKS TO COMPLY WITH THE CURRENT DCC CONSTRUCTION STANDARDS AND APPROVED DETAILS.

AECOM
PLANNING

KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	09/10/2026	PLANNING ISSUE
0	07.08.2026	PLANNING ISSUE

PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED OVERALL
PAVEMENT LAYOUT

SHEET NUMBER

RATH-ACM-XX-00-DR-C-001100

Approved: LS
Checked: SG
Designer: KM
Project Management Initials:



A | **PROPOSED PAVEMENT LAYOUT SHEET 1 OF 2**

001101

Scale: 1:500

Last saved by: STUART.WILLIAMS(2026-10-02) Last Plotted: 2026-10-07
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PROJECT

SDCC RATHCOOLE

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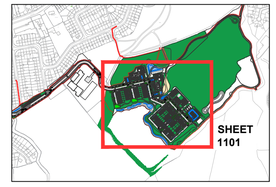
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9. ALL WORKS TO COMPLY WITH THE CURRENT DCC CONSTRUCTION STANDARDS AND APPROVED DETAILS.

AECOM
PLANNING

KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	09.10.2026	PLANNING ISSUE
0	07.08.2026	PLANNING ISSUE

PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED PAVEMENT LAYOUT SHEET 1 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-001101

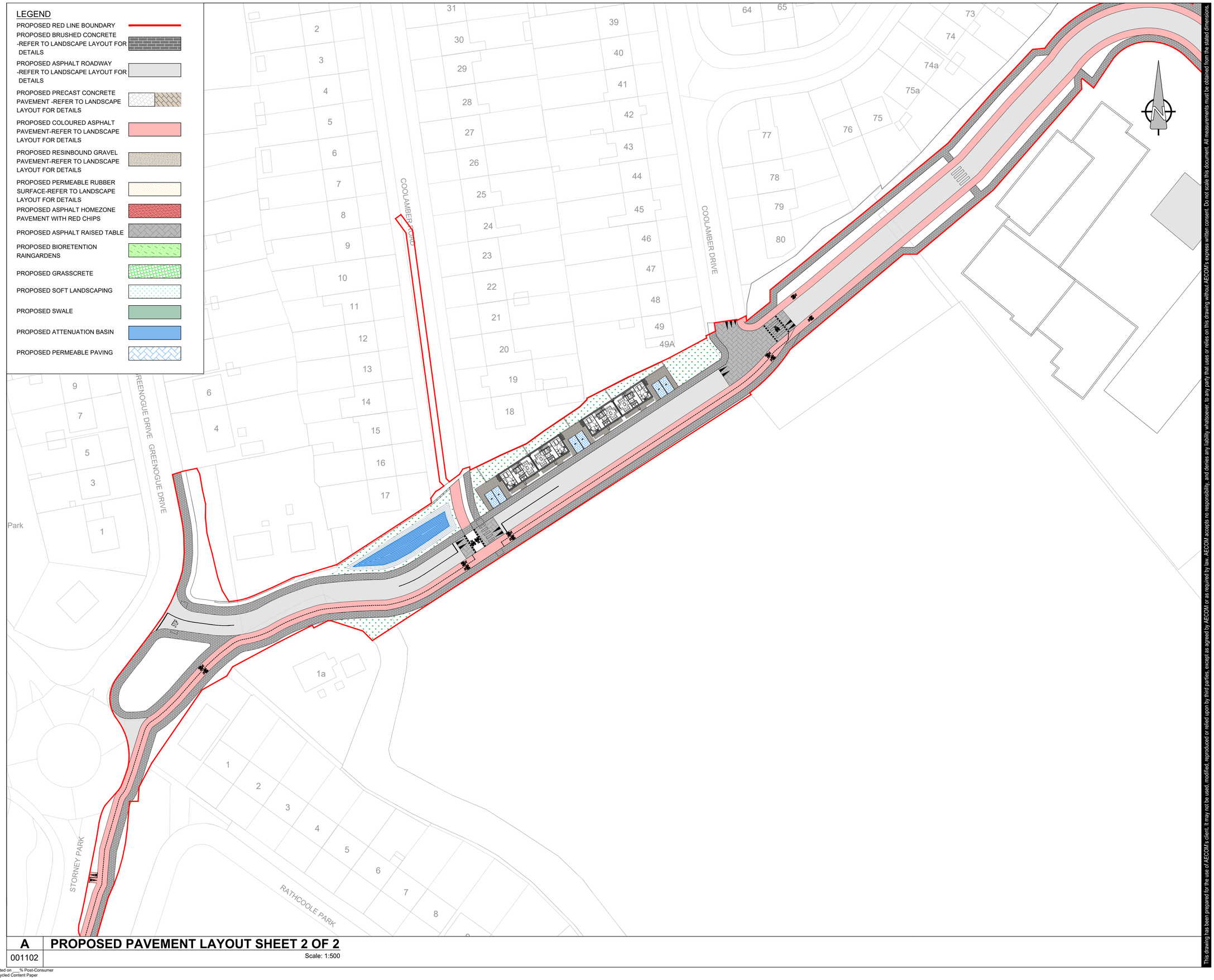
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Last saved by: KARL.MULLIGAN(2026-10-07) Last Plotted: 2026-10-07
Filename: C:\USERS\KARL.MULLIGAN\ONEDRIVE - AECOM\SDCC RATH - GENERAL\900_CAD_GIS\904_CE\01_WIP\02_SHEETS\RATH-ACM-XX-00-DR-C-001102 - PROPOSED PAVEMENT LAYOUT SHEET 2 OF 2.DWG

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LEGEND

- PROPOSED RED LINE BOUNDARY
- PROPOSED BRUSHED CONCRETE -REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED ASPHALT ROADWAY -REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED PRECAST CONCRETE PAVEMENT -REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED COLOURED ASPHALT PAVEMENT-REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED RESINBOUND GRAVEL PAVEMENT-REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED PERMEABLE RUBBER SURFACE-REFER TO LANDSCAPE LAYOUT FOR DETAILS
- PROPOSED ASPHALT HOMEZONE PAVEMENT WITH RED CHIPS
- PROPOSED ASPHALT RAISED TABLE
- PROPOSED BIORETENTION RAINGARDENS
- PROPOSED GRASSCRETE
- PROPOSED SOFT LANDSCAPING
- PROPOSED SWALE
- PROPOSED ATTENUATION BASIN
- PROPOSED PERMEABLE PAVING



A	PROPOSED PAVEMENT LAYOUT SHEET 2 OF 2
001102	Scale: 1:500

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PROJECT

SDCC RATHCOOLE

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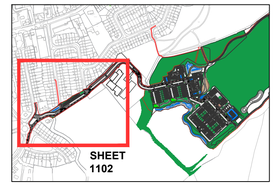
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KEY PLAN



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1	09.10.2026	PLANNING ISSUE
0	07.08.2026	PLANNING ISSUE

PROJECT NUMBER

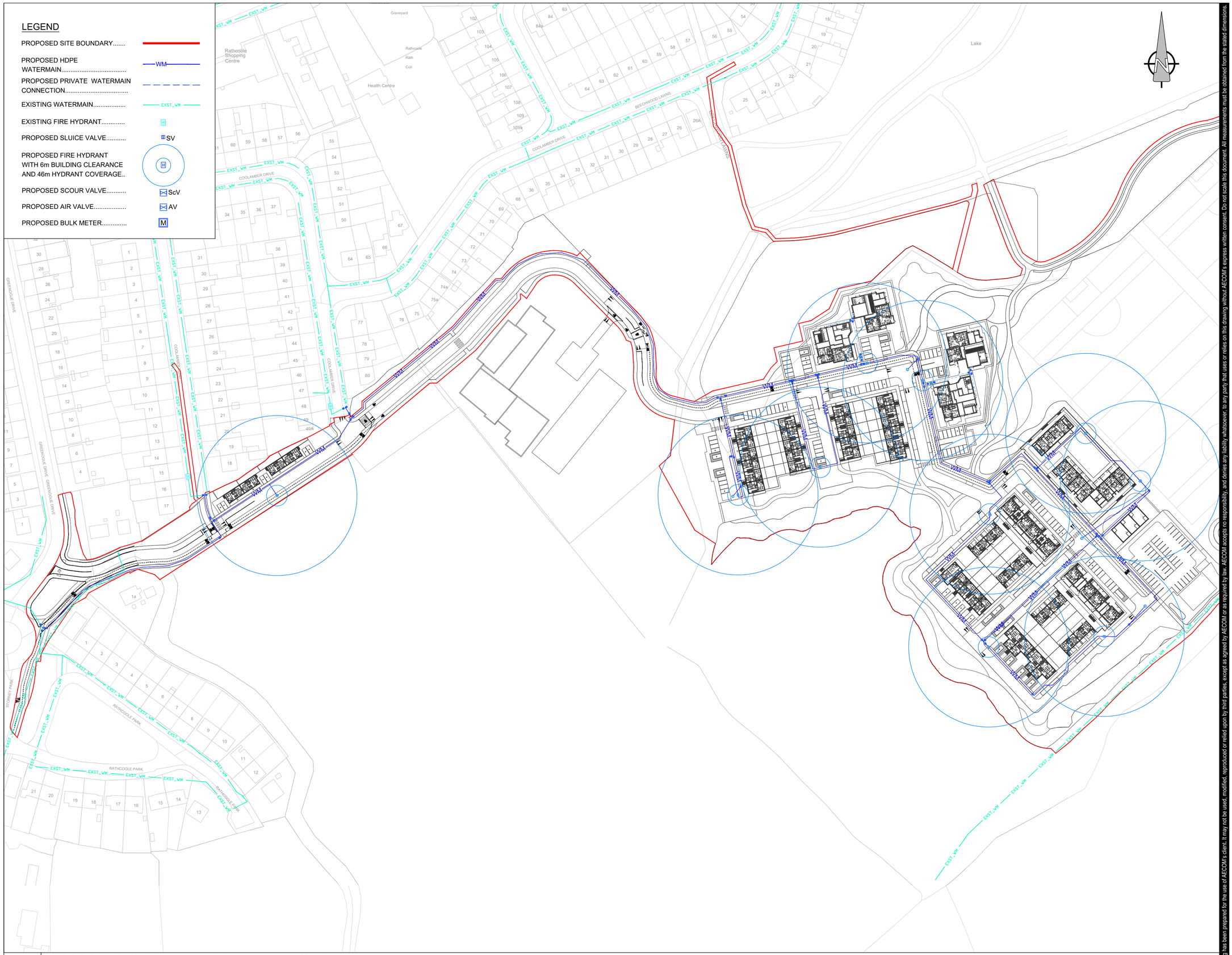
60739527

SHEET TITLE

PROPOSED PAVEMENT LAYOUT
SHEET 2 OF 2

SHEET NUMBER

RATH-ACM-XX-00-DR-C-001102



A PROPOSED OVERALL WATERMAIN LAYOUT

002700

Scale: 1:1000

Approved: LS
Checked: SG
Designer: KM
Project Management Initials:

Last saved by: STUART.WILLIAMS(2026-10-05) Last Plotted: 2026-10-05
Filename: C:\USERS\KARL.MULLIGAN\ONEDRIVE - AECOM\SDCC RATH - GENERAL\900_CAD_GIS\904_CE\01_WIP\02_SHEETS\RATH-ACM-XX-00-DR-C-002700 - PROPOSED OVERALL WATERMAIN LAYOUT.DWG

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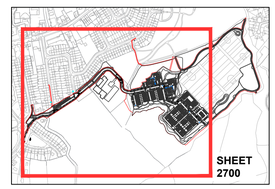
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5. DO NOT SCALE, ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
6. THE DEVELOPMENT SHALL HAVE A BULK WATER METER (EXACT LOCATION TO BE AGREED WITH IRISH WATER) IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE SECTION 3.15.4.
7. EACH HOUSE UNIT SHALL HAVE AN APPROVAL BOUNDARY BOX (REFER TO APPENDIX A OF THE IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE) WITH INTEGRAL STOPCOCK AND SUITABLE FOR THE RECEPTION OF A WATER METER (REFER TO IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.14).
8. ALL PROPERTIES SHALL HAVE METERS INSTALLED INTERNALLY WITHIN THE PREMISES IN ACCORDANCE WITH THE BUILDING CONTROL AUTHORITY'S REQUIREMENTS AND SUBJECT TO REVIEW BY IRISH WATER AS PER IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.15.2.
9. ALL PROPOSED WATERMAIN PIPEWORK TO BE HDPE WITH MINIMUM PE80 RATING IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
10. THE MINIMUM PIPE DIAMETER PROPOSED IS 100mm.
11. ALL WATERMAINS WILL HAVE A MINIMUM COVER OF 900mm. ALL SERVICE PIPES CONNECTING PROPERTIES WILL HAVE MINIMUM COVER OF 750mm.
12. HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PN16 AND SHALL COMPLY WITH BS EN 14339, IS EN 1074 PART 6 AND 135 750. REFER TO IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.16.5.
13. SLUICE VALVES HAVE BEEN PROVIDED SO THAT INDIVIDUAL SECTIONS CAN BE ISOLATED & WILL COMPLY TO BS 5163. THE DEPTH OF THE SLUICE VALVE SPINDLE CAP BELOW FINISHED GROUND WILL NOT EXCEED 300mm.
14. ALL WATERMAIN DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
15. PROPOSED COMMERCIAL UNITS TO BE SERVED BY A PRIVATE SERVICE CONNECTION AND BULK FLOW METER IN ACCORDANCE WITH STD-W-26 AND SECTION 3.15.3 OF THE IRISH WATER CODE OF PRACTICE.

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PLANNING

KEY PLAN



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	09.10.2026	PLANNING ISSUE
1	07.08.2026	PLANNING ISSUE
0	27/04/2026	ISSUE FOR STAGE 2A

PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED OVERALL WATERMAIN LAYOUT

SHEET NUMBER

RATH-ACM-XX-00-DR-C-002700

Approved: LS
Checked: SG
Designer: KM
Project Management Initials:

PROPOSED 100Ømm SERVICE CONNECTION AND BULK WATER METER FLOW TO WATER TANK ROOM. DISTRIBUTION PIPEWORK TO M&E CONSULTANTS DESIGN AND IN ACCORDANCE WITH BUILDING CONTROL AUTHORITY'S REQUIREMENTS.

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

Ø100mm NB HDPE WATERMAIN

Ø150mm NB HDPE WATERMAIN

PROPOSED SCOUR VALVE TO BE PROVIDED AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-30B TO DISCHARGE INTO NEAREST SURFACE WATER MANHOLE

PROPOSED SURFACE WATER MANHOLE

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

PROPOSED 100Ømm SERVICE CONNECTION AND BULK WATER METER FLOW TO WATER TANK ROOM. DISTRIBUTION PIPEWORK TO M&E CONSULTANTS DESIGN AND IN ACCORDANCE WITH BUILDING CONTROL AUTHORITY'S REQUIREMENTS.

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

Ø100mm NB HDPE WATERMAIN

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

PROPOSED SCOUR VALVE TO BE PROVIDED AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-30B TO DISCHARGE INTO NEAREST SURFACE WATER MANHOLE

SCV

PROPOSED SURFACE WATER MANHOLE

PROPOSED WATERMAIN LOOP IN ACCORDANCE WITH UISCE ÉIREANN STANDARD DETAIL REF. STD-W-39

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

Ø100mm NB HDPE WATERMAIN

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

Ø100mm NB HDPE WATERMAIN

PROPOSED SURFACE WATER MANHOLE

PROPOSED SCOUR VALVE TO BE PROVIDED AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-30B TO DISCHARGE INTO NEAREST SURFACE WATER MANHOLE

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

PROPOSED ON-LINE HYDRANT AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-18

PROPOSED AIR VALVE TO BE PROVIDED AS PER UISCE ÉIREANN STANDARD DETAIL STD-W-22

3.275m
3.235m
3.100m
5.200m
1.65m
3m
1.65m

LEGEND

- PROPOSED SITE BOUNDARY.....
- PROPOSED HDPE WATERMAIN..... WM
- PROPOSED PRIVATE WATERMAIN CONNECTION.....
- EXISTING WATERMAIN..... EXST_WM
- EXISTING FIRE HYDRANT.....
- PROPOSED SLUICE VALVE..... SV
- PROPOSED FIRE HYDRANT WITH 6m BUILDING CLEARANCE AND 46m HYDRANT COVERAGE..
- PROPOSED SCOUR VALVE..... ScV
- PROPOSED AIR VALVE..... AV
- PROPOSED BULK METER..... M

A **PROPOSED WATERMAIN LAYOUT SHEET 1 OF 2**

002701

Scale: 1:500

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PROJECT

SDCC RATHCOOLE

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SOUTH DUBLIN COUNTY COUNCIL

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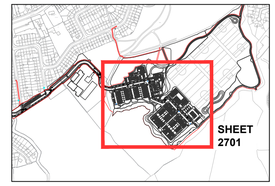
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4. DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
5. DO NOT SCALE, ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
6. THE DEVELOPMENT SHALL HAVE A BULK WATER METER (EXACT LOCATION TO BE AGREED WITH IRISH WATER) IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE SECTION 3.15.4.
7. EACH HOUSE UNIT SHALL HAVE AN APPROVAL BOUNDARY BOX (REFER TO APPENDIX A OF THE IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE) WITH INTEGRAL STOPCOCK AND SUITABLE FOR THE RECEPTION OF A WATER METER (REFER TO IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.14).
8. ALL PROPERTIES SHALL HAVE METERS INSTALLED INTERNALLY WITHIN THE PREMISES IN ACCORDANCE WITH THE BUILDING CONTROL AUTHORITY'S REQUIREMENTS AND SUBJECT TO REVIEW BY IRISH WATER AS PER IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.15.2.
9. ALL PROPOSED WATERMAIN PIPEWORK TO BE HDPE WITH MINIMUM PE80 RATING IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
10. THE MINIMUM PIPE DIAMETER PROPOSED IS 100mm.
11. ALL WATERMAINS WILL HAVE A MINIMUM COVER OF 900mm. ALL SERVICE PIPES CONNECTING PROPERTIES WILL HAVE MINIMUM COVER OF 750mm.
12. HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PN16 AND SHALL COMPLY WITH BS EN 14339, IS EN 1074 PART 6 AND 135 750. REFER TO IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.16.5.
13. SLUICE VALVES HAVE BEEN PROVIDED SO THAT INDIVIDUAL SECTIONS CAN BE ISOLATED & WILL COMPLY TO BS 5163. THE DEPTH OF THE SLUICE VALVE SPINDLE CAP BELOW FINISHED GROUND WILL NOT EXCEED 300mm.
14. ALL WATERMAIN DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
15. PROPOSED COMMERCIAL UNITS TO BE SERVED BY A PRIVATE SERVICE CONNECTION AND BULK FLOW METER IN ACCORDANCE WITH STD-W-26 AND SECTION 3.15.3 OF THE IRISH WATER CODE OF PRACTICE.

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PLANNING

KEY PLAN



ISSUE/REVISION

1	09.10.2026	PLANNING ISSUE
0	07.08.2026	PLANNING ISSUE
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60739527

SHEET TITLE

PROPOSED WATERMAIN LAYOUT SHEET 1 OF 2

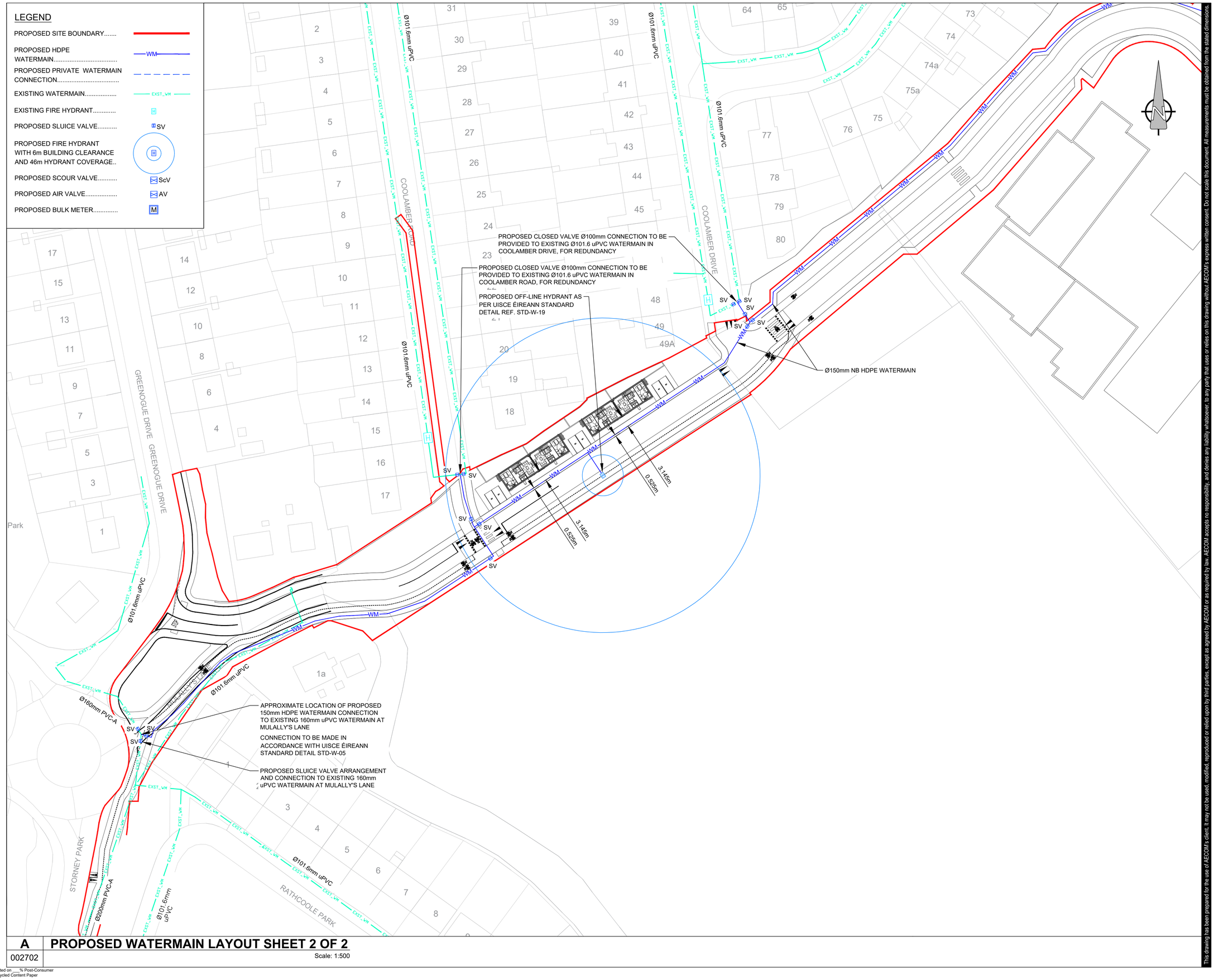
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RATH-ACM-XX-00-DR-C-002701

Project Management Initials: Designer: KM Checked: SG Approved: LS

LEGEND

- PROPOSED SITE BOUNDARY.....
- PROPOSED HDPE WATERMAIN.....
- PROPOSED PRIVATE WATERMAIN CONNECTION.....
- EXISTING WATERMAIN.....
- EXISTING FIRE HYDRANT.....
- PROPOSED SLUICE VALVE.....
- PROPOSED FIRE HYDRANT WITH 6m BUILDING CLEARANCE AND 46m HYDRANT COVERAGE..
- PROPOSED SCOUR VALVE.....
- PROPOSED AIR VALVE.....
- PROPOSED BULK METER.....



A PROPOSED WATERMAIN LAYOUT SHEET 2 OF 2

002702 Scale: 1:500

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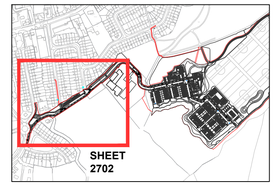
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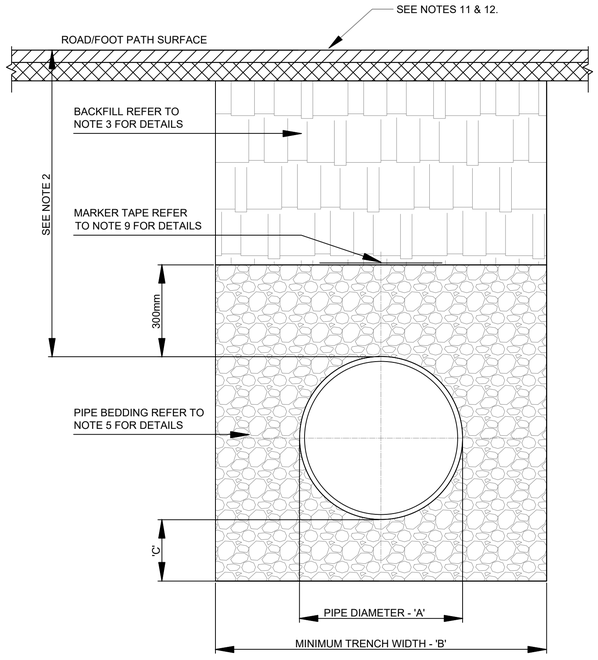
PROPOSED WATERMAIN LAYOUT SHEET 2 OF 2

SHEET NUMBER

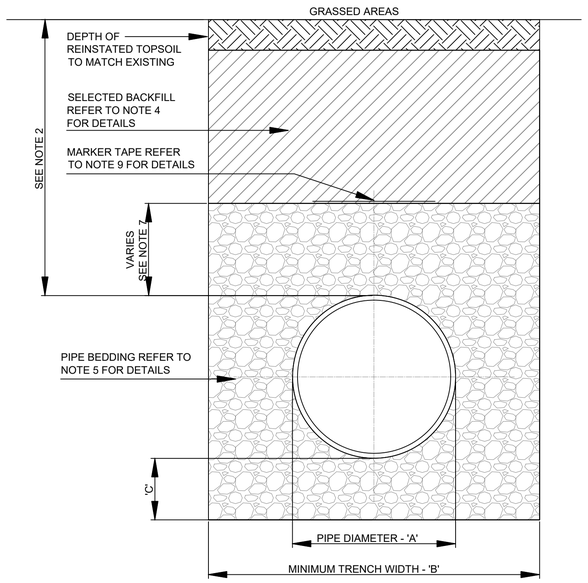
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ISO A1 594mm x 841mm
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CROSS SECTION IN ROADS



CROSS SECTION IN GRASSED AREAS

TRENCH BACKFILL AND BEDDING
(STD-WW-07-02)
SCALE: NTS

PIPE BEDDING NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:

A) GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS -DEPTH NOT LESS THAN 0.5 M. (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY, SHALLOW PIPES OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS).

B) DRIVEWAYS, FOOTWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.75 M.

C) DRIVEWAYS, FOOTWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G. MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.9 M.

D) DEPTHS OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED ABOVE.

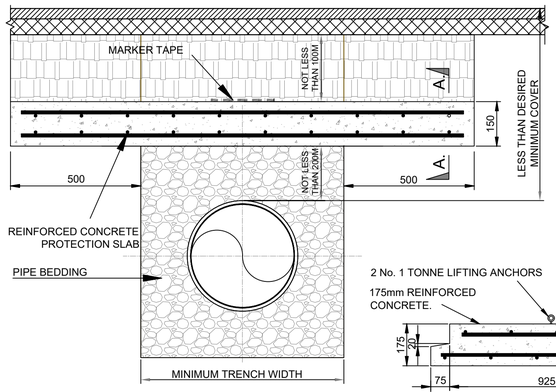
E) AGRICULTURAL LAND AND PUBLIC OPEN SPACE - DEPTH NOT LESS THAN 0.9 M.

F) OTHER ROADWAYS, HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 1.2m.

3. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS,FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. CLAUSE 808 IS TO BE USED WITHIN 500mm OF CEMENT BOUND MATERIALS, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR CONCRETE PRODUCTS. OTHERWISE CLAUSE 804 MAY BE USED. ALTERNATIVE BACKFILL MATERIAL TO THAT DESCRIBED ABOVE (CLAUSE 804 OR CLAUSE 808) OF THE PIPE TRENCH WILL ONLY BE ALLOWED BY IRISH WATER WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE DEVELOPMENT IS LOCATED, PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO THE USE SUCH ALTERNATIVE MATERIAL EVIDENCE OF THIS WRITTEN APPROVAL TO BE PROVIDED TO IRISH WATER IN ADVANCE OF THE COMMENCEMENT OF WORKS.
4. SELECTED EXCAVATED MATERIAL COMPLYING WITH THE REQUIREMENTS OF "ACCEPTABLE MATERIAL" AS OUTLINED ON CLAUSE 601 OF THE TII SPECIFICATION FOR ROADWORKS, TABLE 6/1,CLASS 8,CLASS 2. MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO REVIEW BY IRISH WATER.
5. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01. THE PIPE BEDDING GRANULAR MATERIAL SHALL BE 14mm TO 5mm (⅜ ¾) GRADED AGGREGATE OR 10mm (⅜ ⅛) SINGLE SIZED AGGREGATE TO IS EN 13242. CONCRETE BED, HAUNCH, & SURROUND, WHERE REQUIRED, SHALL BE TO STD-WW-08.
6. IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING. ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK.
7. IN GREEN FIELD AREAS, TYPE B BACKFILL (SELECTED EXCAVATED MATERIAL COMPLYING WITH THE REQUIREMENTS OF "ACCEPTABLE MATERIAL" AS OUTLINED ON CLAUSE 601 OF THE TII SPECIFICATION FOR ROADWORKS, TABLE 6/1,CLASS 8,CLASS 2.) WILL BE ALLOWED ABOVE THE SIDE HAUNCH GRANULAR MATERIAL IN THE CASE OF RIGID PIPES. A GRANULAR SURROUND OF A MINIMUM, DEPTH OF 150mm ABOVE THE CROWN OF THE PIPE IS REQUIRED FOR FLEXIBLE PIPES AND TYPE B MATERIAL MAY BE USED AS BACKFILL ABOVE THIS. ALL RISING MAINS IN GREENFIELD AREAS SHALL HAVE A MINIMUM COVER OF 400mm OF GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE.
8. PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS 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 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
9. NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT THE TOP OF PIPE BEDDING LAYER FOR SEWERS AND RISING MAINS. IT SHOULD RUN CONTINUOUSLY AROUND MANHOLES. IN THE CASE OF NON METAL PIPE MATERIAL, THE MARKER TAPE SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO FITTINGS AND TERMINATED AT THE WASTE WATER PUMPING STATION (IF PROVIDED) AND THE DISCHARGE MANHOLE.
10. TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.
11. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
12. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
≤ 80 RISING MAIN	SEE NOTE 10.
100	500
150 - 200	600
>200 - 350	750
>350 - 450	900

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤100	100
150 - 450	200

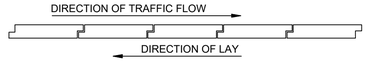


REDUCED COVER
PROTECTION SLAB DETAIL

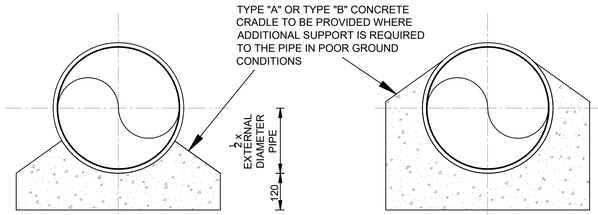
SECTION A - A

PIPE SURROUND NOTES

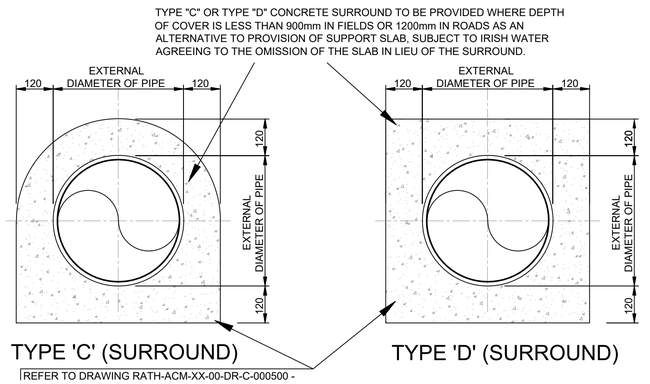
1. FOR ANY SLABBING WORKS TO BE CARRIED OUT WITHIN THE VICINITY OF THE PIPELINE, A METHOD STATEMENT IS TO BE SUBMITTED FOR REVIEW BY IRISH WATER.
2. MARKER TAPE TO BE PLACED ABOVE THE SLAB AND ALONG THE DIRECTION OF THE PIPELINE
3. CONCRETE TO BE GRADE C30/35
4. MINIMUM COVER TO STEEL REINFORCEMENT =40mm
5. SLABS TO BE DESIGNED FOR USE UNDER A HB25 LOAD IN ACCORDANCE WITH BS5400-2. DESIGN TO BE SUBMITTED TO IRISH WATER FOR ASSESSMENT PRIOR TO INSTALLATION.
6. THE SOIL ON WHICH THE SLAB RESTS MUST HAVE A CBR OF 4% OR GREATER.WHERE THE CBR IS LESS THAN 4% THE MATERIAL SHALL BE REMOVED AND REPLACED WITH IMPORTED GRANULAR MATERIAL AS APPROVED BY IRISH WATER.
7. IF DIRECTION OF PIPELINE AND DIRECTION OF TRAFFIC FLOW ARE PARALLEL, THE DIRECTION OF LAY OF THE SLAB IS TO BE AGAINST THE DIRECTION OF TRAFFIC FLOW.



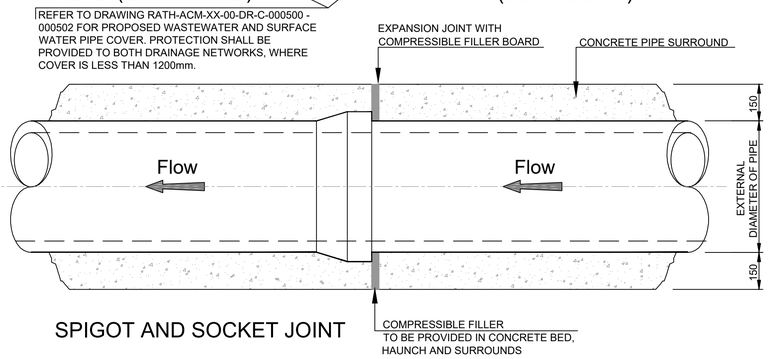
8. IF PIPELINE PROTECTION SLAB IS TO BE USED SOLELY FOR IMPACT PROTECTION & OVERALL DEPTH OF COVER IS GREATER THAN 1.2m, THE DISTANCE BETWEEN UNDERSIDE OF SLAB & TOP OF PIPE MAY BE INCREASED AFTER CONSULTATION WITH IRISH WATER.
9. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
10. CONCRETE BED AND HAUNCHES MAY BE REQUIRED TO PROVIDE ADDITIONAL SUPPORT IN POOR GROUND CONDITIONS. PROPOSALS TO BE PROVIDED TO IRISH WATER WITH GEOTECHNICAL REPORT SUPPORTING THEIR USE.
11. CONCRETE SURROUNDS SHALL HAVE A MINIMUM THICKNESS OF 150mm WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE OF 750mm.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 AND TO BE GRADE C16/20 TO IS EN206
13. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUGH CAST FINISH.
14. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY, COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4, AND TO BE 18mm THICK.
15. POLYETHYLENE AND uPVC PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
16. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.



TYPE 'A' (BED) TYPE 'B' (HAUNCH)



TYPE 'C' (SURROUND) TYPE 'D' (SURROUND)



SPIGOT AND SOCKET JOINT

CONCRETE PROTECTION SLAB, BED,
HAUNCH, AND SURROUND, TO
WASTEWATER PIPES (STD-WW-08-01) AND
SURFACE WATER PIPES
SCALE: NTS

A	PROPOSED DRAINAGE DETAILS SHEET 1 OF 4
000510	Scale: AS SHOWN

ORDNANCE SURVEY IRELAND LICENCE NO CYAL50533676
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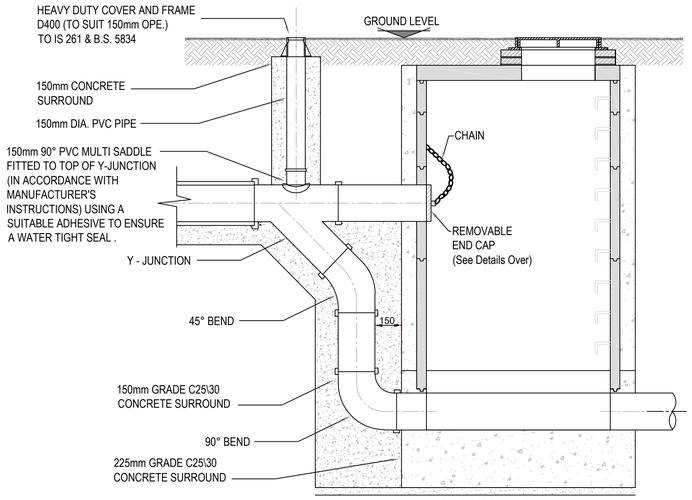
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PROPOSED DRAINAGE DETAILS
SHEET 1 OF 4

SHEET NUMBER

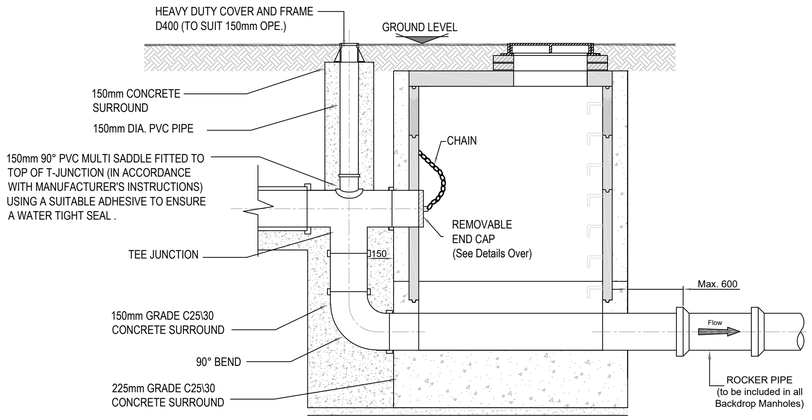
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TYPE No. 1

150mm - 450mm DIA. (INCL.) DROP GREATER THAN 1700mm & LESS THAN 2300mm
500mm - 900mm DIA. (INCL.) DROP GREATER THAN 2300mm & LESS THAN 3000mm

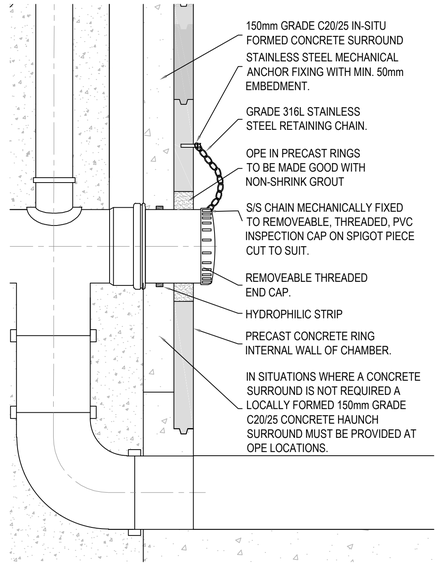


TYPE No. 2

150mm - 450mm DIA. (INCL.) DROP GREATER THAN 900 AND LESS THAN 1700mm

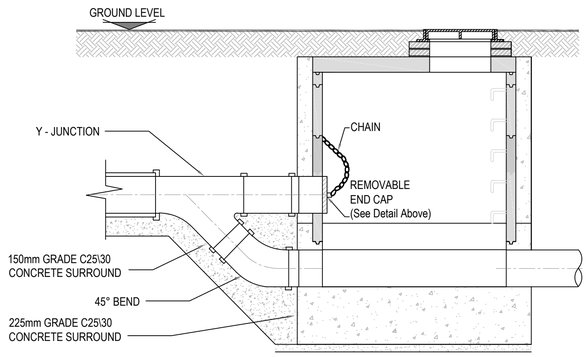
BACKDROP MANHOLE NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. RODDING EYE VERTICAL PIPE SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
3. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER.
4. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
5. MANHOLE DETAILS TO BE IN ACCORDANCE WITH STD-WW-09, 10, 10A AND 11
6. ALL BACKDROPS SHOULD TERMINATE AT THEIR LOWER END WITH A BEND INTO THE MAIN CHANNEL TO ENSURE THE DISCHARGE IS 45° OR LESS ON PLAN.
7. 200mm ALL AROUND x 100mm DEEP, C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH MILD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.



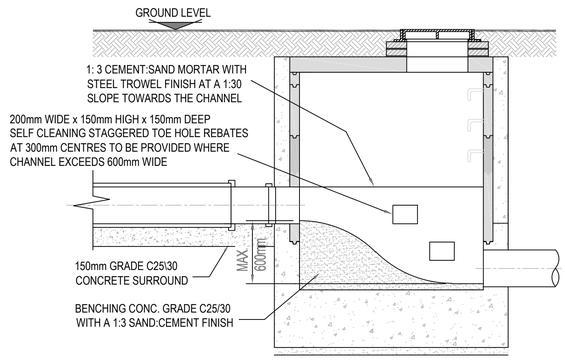
RODDING EYE AND CAP DETAIL

NOTE:
PRECAST CONCRETE MANHOLES SHALL ONLY BE USED WHERE THE WATER TABLE IS LOW. THEY SHALL NOT BE USED WHERE THERE IS A PERCHED WATER TABLE, WHERE THE SEWER IS LOCATED NEXT TO A RIVER, LAKE OR OTHER WATER BODY AND WITHIN AREAS THAT ARE IDENTIFIED BY THE OFFICE OF PUBLIC WORKS CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT (CFRAM) WITH A FLOOD RISK OF 1 IN 10 YEARS.



TYPE No. 3

150mm - 450mm DIA. (INCL.) DROP GREATER THAN 600mm AND LESS THAN 900m



TYPE No. 4 CASCADE MANHOLE

150mm - 450mm DIA. (INCL.) DROP LESS THAN 600mm

BACKDROP AND CASCADE MANHOLES
(STD-WW-12-03)
SCALE: NTS

A	PROPOSED DRAINAGE DETAILS SHEET 2 OF 4
000511	Scale: AS SHOWN

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	09.10.2026	PLANNING ISSUE

PROJECT NUMBER
60739527

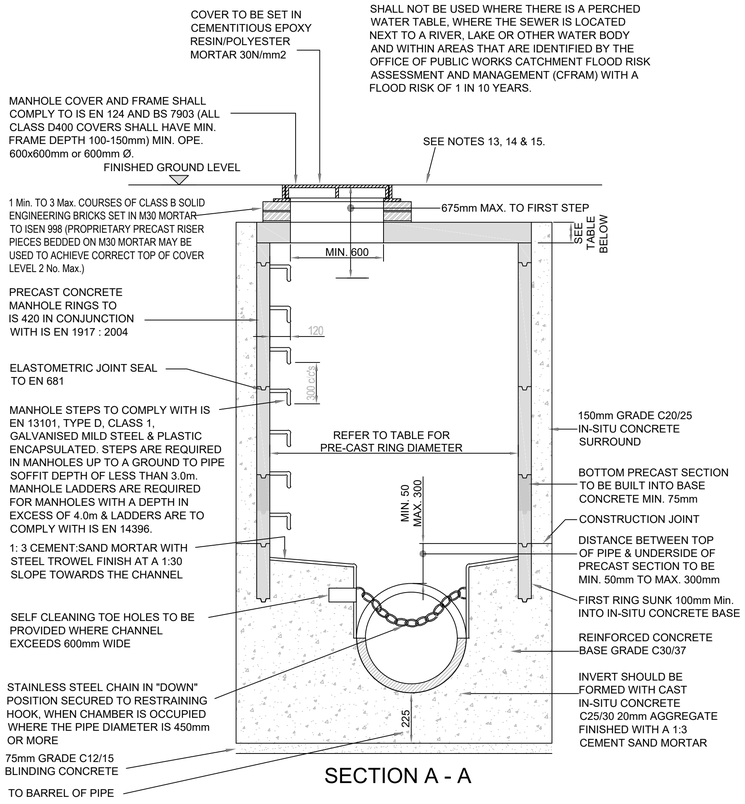
SHEET TITLE
PROPOSED DRAINAGE DETAILS
SHEET 2 OF 4

SHEET NUMBER
RATH-ACM-XX-XX-DR-C-000511

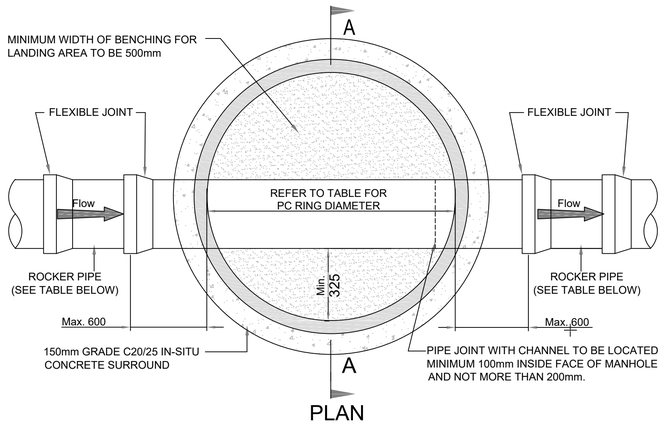
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Printed on ___% Post-Consumer Recycled Content Paper

ISO A1 594mm x 841mm
Approved: LS
Checked: SG
Designer: KM
Project Management Initials:
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NOTE:
PRECAST CONCRETE MANHOLES SHALL ONLY BE USED WHERE THE WATER TABLE IS LOW. THEY SHALL NOT BE USED WHERE THERE IS A PERCHED WATER TABLE, WHERE THE SEWER IS LOCATED NEXT TO A RIVER, LAKE OR OTHER WATER BODY AND WITHIN AREAS THAT ARE IDENTIFIED BY THE OFFICE OF PUBLIC WORKS CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT (CFRAM) WITH A FLOOD RISK OF 1 IN 10 YEARS.



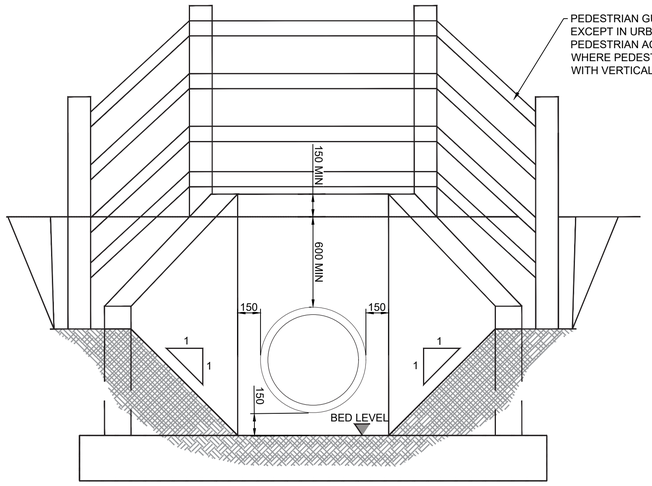
SECTION A - A



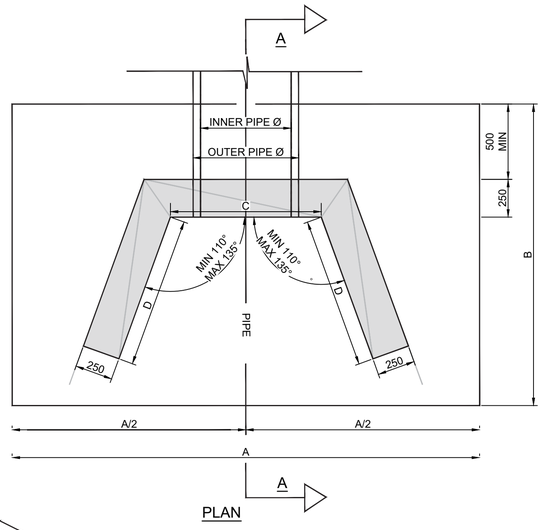
PLAN

MINIMUM MANHOLE DIAMETERS			
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	**INTERNAL DIAMETER OF MANHOLE (mm)**	**MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)**	**MIN. IN-SITU ROOF SLAB THICKNESS (mm)**
LESS THAN 375	1200	160	225
375 TO 450	1350	160	225
500 TO 750 *	1500	170	225

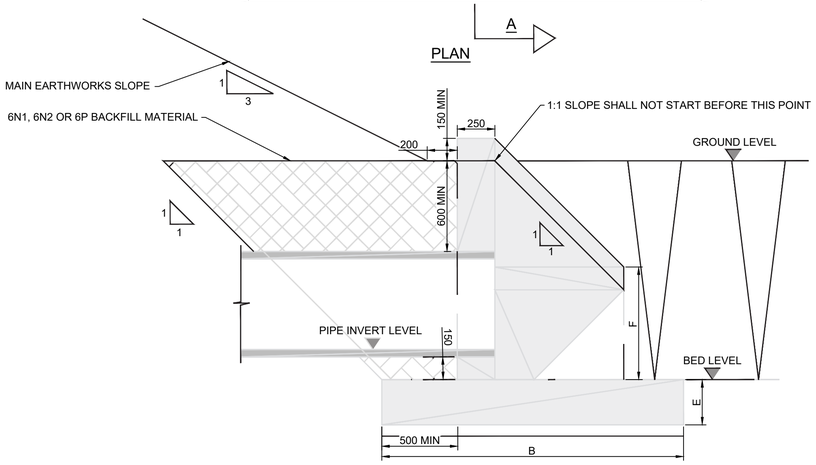
PRE-CAST CONCRETE MANHOLE
WITH CAST IN-SITU BASE
(STD-WW-10-03)
SCALE: NTS



ELEVATION



PLAN



SECTION A - A

SCHEDULE OF MINIMUM DIMENSIONS						
PIPE INNER Ø	A	B	C	D	E	F
<=300	2000	2000	PIPE OUTER Ø + 300	1000	400	500
301-600	2500	2500	PIPE OUTER Ø + 300	1250	400	600
601-900	3200	3200	PIPE OUTER Ø + 300	1550	500	700
901-1200	3900	3900	PIPE OUTER Ø + 300	1850	500	800
1201-1500	4700	4700	PIPE OUTER Ø + 300	2150	500	900
1501-1800	2000	2000	PIPE OUTER Ø + 300	1000	400	500

ALL DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE MINIMUMS ONLY AND THE DESIGNER SHALL CONFIRM
DETAILS FOR SPECIFIC SITE CONDITIONS, THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE BASED ON THE
FOLLOWING CONSTRAINS:

- ANGLE BETWEEN HEADWALL AND WINGWALL IS 110°;
- BACKFILL MATERIAL IS FREE DRAINING;
- THERE ARE NO LIVE LOAD EFFECT ON THE HEADWALL;
- CHARACTERISTIC VALUE OF INTERNAL FRICTION (Ω) OF THE BACKFILL MATERIAL =37.5°;
- 600mm COVER TO THE PIPE AT THE REAR OF THE HEADWALL, WITH A 200mm WIDE FLAT AREA BEFORE THE COMMENCEMENT OF THE MAIN EARTHWORKS SLOPE;
- SLOPE OF FILL MEASURED FROM THE REAR FACE OF THE WINGWALLS DOWNWARDS AND FROM BED LEVEL UPWARDS ARE BOTH TO BE 1:1

HEADWALL NOTES

1. ALL DIMENSIONS ARE MILLIMETERS.
2. THIS RCD IS ONLY TO BE USED IN ASSOCIATION WITH UNIQUE STRUCTURAL DESIGN. THIS DESIGN IS TO CARRIED OUT IN ACCORDANCE WITH THE NRA REQUIREMENTS FOR THE USE OF EUROCODES FOR THE DESIGN OF ROAD STRUCTURES.
3. REINFORCED CONCRETE SHALL BE A MINIMUM GRADE OF C32/40, ALL STRUCTURAL CONCRETE SHALL BE SPECIFIED IN ACCORDANCE WITH SERIES 1700 OF THE NRA MCDRW.
4. ALL BLINDING CONCRETE SHALL BE ST2 IN ACCORDANCE WITH IS EN 206.
5. THE MINIMUM COVER TO REINFORCEMENT FOR DURABILITY SHALL BE IN ACCORDANCE WITH NRA BD 57, MINIMUM EXPOSURE CLASS TO BE XC4.
6. ANY RESULTING VOID BETWEEN THE OUTSIDE OF PIPE AND THE OPE IN THE HEADWALL SHALL BE FILLED WITH NON-COMPRESSIBLE HIGH STRENGTH GROUT.
7. ALL EXPOSED CONCRETE SURFACES FROM 100mm BELOW GROUND LEVEL TO BE CLASS U4/F4 FINISH. ALL OTHER CONCRETE SURFACES TO BE CLASS I1/F1 FINISH UNLESS OTHERWISE SPECIFIED.
8. HEADWALL WINGWALLS TO BE SLOPED AND SHALL MAINTAIN A MINIMUM HEIGHT OF 150mm ABOVE ADJACENT BACKFILL LEVEL.
9. RENDERED CONCRETE BLOCKWORK MAY BE USED AS AN ALTERNATIVE TO IN-SITU OR PRECAST CONCRETE FOR PIPES UP TO 300mm INNER DIAMETER.
10. ALL HEADWALLS SHALL BE BACKFILLED WITH CLASS 6N1, 6N2 OR 6P BACKFILL MATERIAL, HEADWALLS SHALL BE FOUNDED ON A MINIMUM 75mm LAYER OF ST2 BLINDING CONCRETE, DETAILS OF THE SUB-BASE LAYER TO BE CONFIRMED BASED ON SITE CONDITIONS.

TYPICAL FORMED HEADWALL DETAILS FOR
SURFACE WATER OUTFALL TO/FROM
EXISTING DRAINAGE DITCH
SCALE 1:20

A	PROPOSED DRAINAGE DETAILS SHEET 3 OF 4	
000512	Scale: AS SHOWN	

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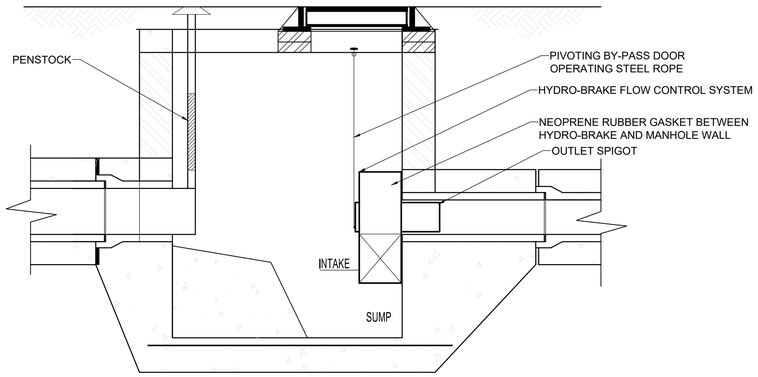
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0	01.10.2026	PLANNING ISSUE

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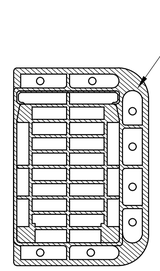
SHEET TITLE
PROPOSED DRAINAGE DETAILS
SHEET 3 OF 4

SHEET NUMBER
RATH-ACM-XX-XX-DR-C-000512

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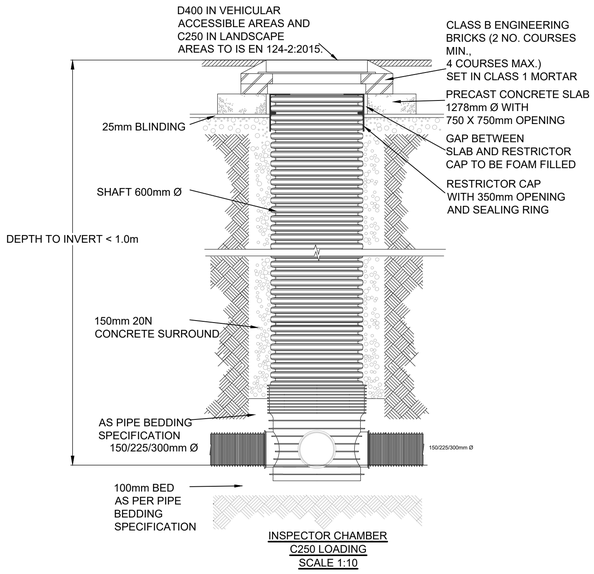


HYDROBRAKE DETAIL AS PER GDSDS
SCALE 1:20

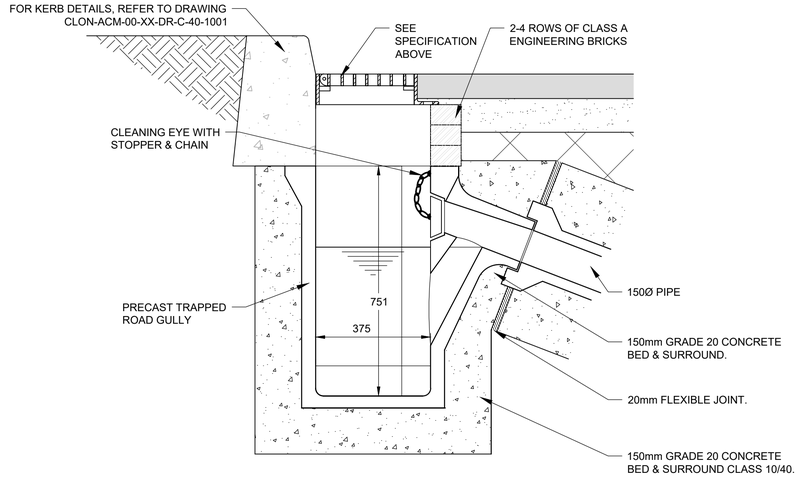


FLAT ROAD GULLY MANUFACTURED IN DUCTILE IRON AND IN COMPLIANCE WITH EN124 D400. OVERALL DIMENSIONS SHALL BE 645x440x100mm.FRAME OPENING 495x345mm. FLANGE SHALL BE TO THREE SIDES ONLY. THE GRATING SHALL BE LEFT HAND HINGED WITH THE FLOW OF TRAFFIC. GRATE SHALL HAVE A CLEAR WATERWAY OF 1140m². A THIRD PARTY TEST REPORT SHOWING COMPLIANCE WITH THE FULL REQUIREMENTS OF EN124 SHALL BE PROVIDED.

D400 GRATING AND FRAME EN 124 / BS
7903 CLASS C



INSPECTOR CHAMBER
C250 LOADING
SCALE 1:10



TYPICAL ROAD GULLY
SCALE 1:10

A	**PROPOSED DRAINAGE DETAILS SHEET 4 OF 4**
000513	Scale: AS SHOWN

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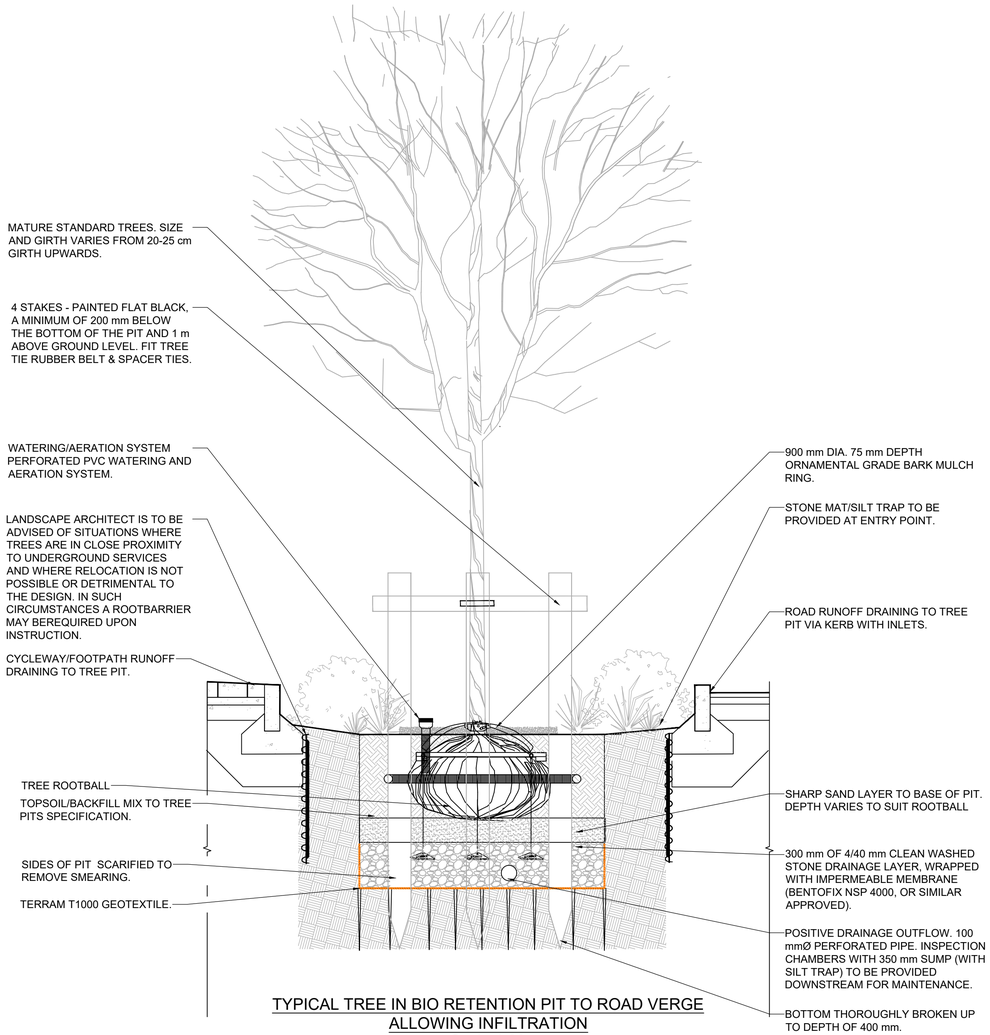
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PROPOSED DRAINAGE DETAILS
SHEET 4 OF 4

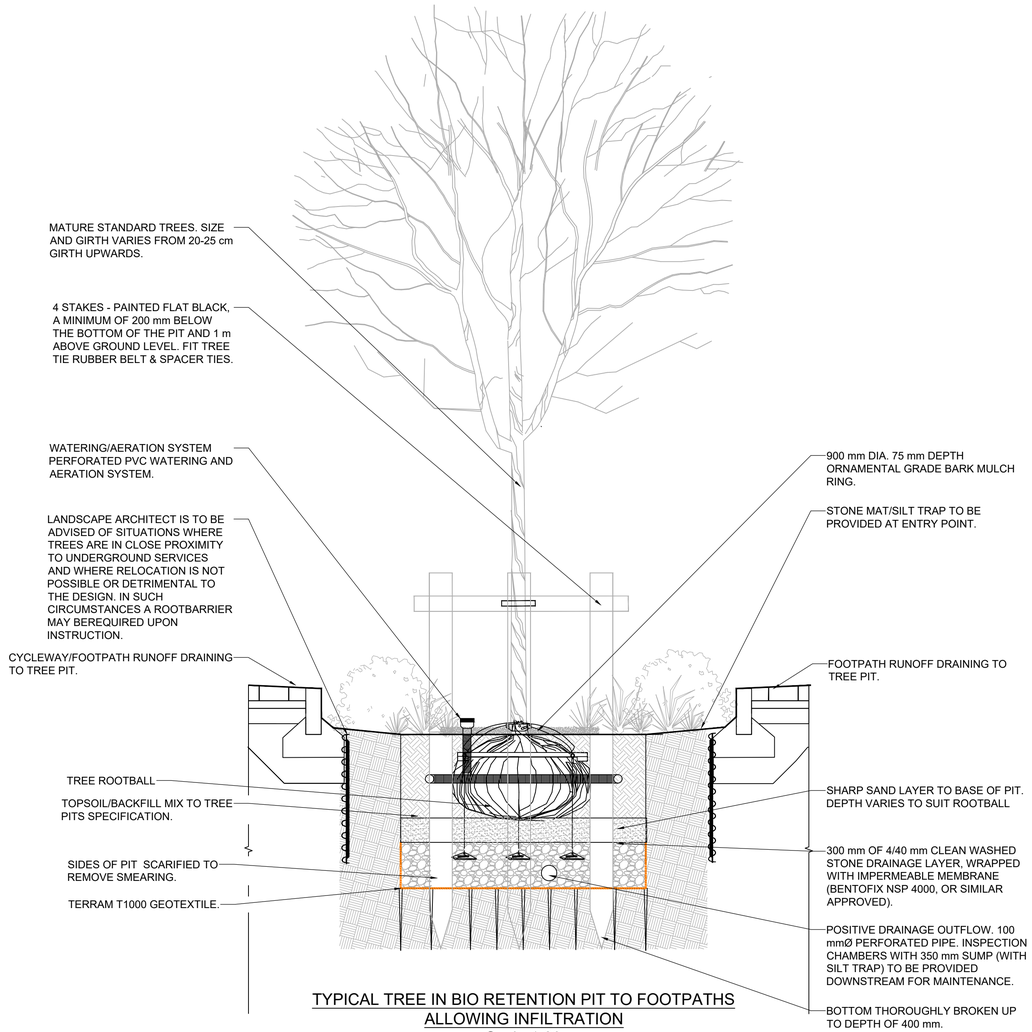
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TYPICAL TREE IN BIO RETENTION PIT TO ROAD VERGE
ALLOWING INFILTRATION
Scale 1:20



TYPICAL TREE IN BIO RETENTION PIT TO FOOTPATHS
ALLOWING INFILTRATION
Scale 1:20

A	**PROPOSED SUDS DETAILS SHEET 1 OF 2**
000530	Scale: AS SHOWN

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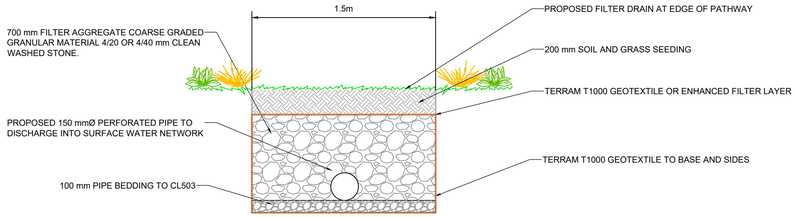
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PROPOSED SUDS DETAILS
SHEET 1 OF 2

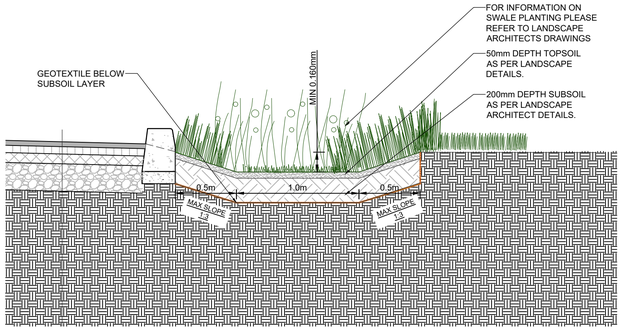
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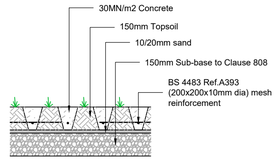
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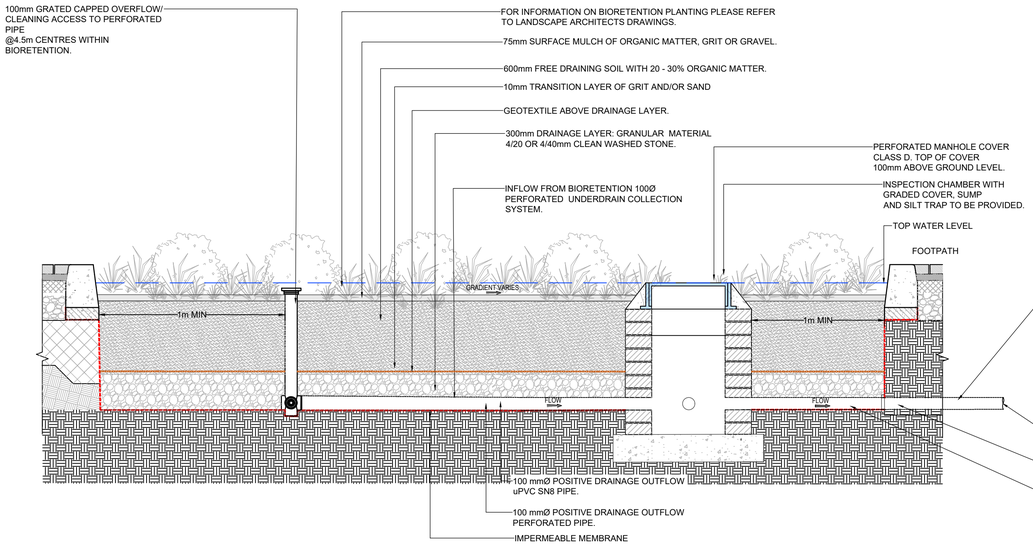
TYPICAL 1.5m FILTER DRAIN
Scale 1:25



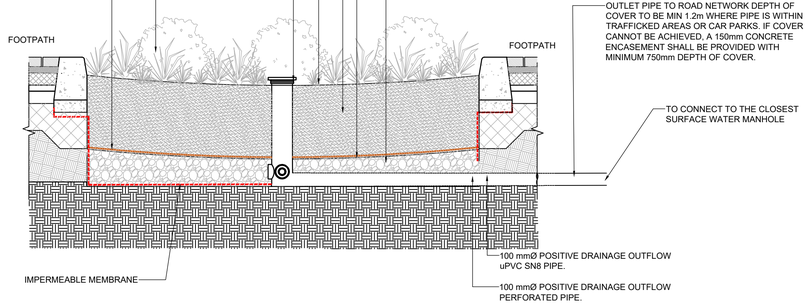
SECTION A-A 2.0m SWALE DETAIL
Scale: 1:25



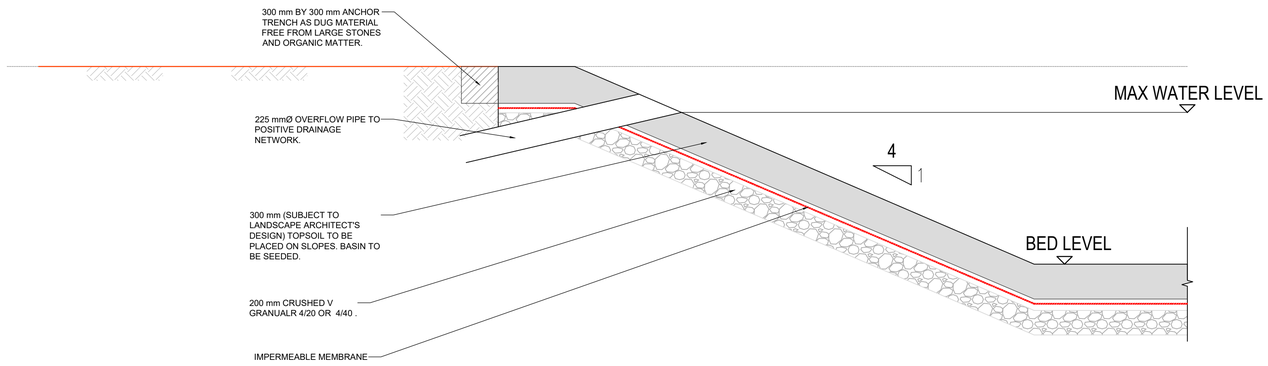
GRASSCRETE PAVING DETAILS
SCALE:1:20



TYPICAL BIORETENTION LONGSECTION
Scale: 1:25



TYPICAL BIORETENTION CROSS-SECTION
Scale: 1:25



TYPICAL ATTENUATION POND
Scale 1:25

A PROPOSED SUDS DETAILS SHEET 2 OF 2

000531

Scale: AS SHOWN

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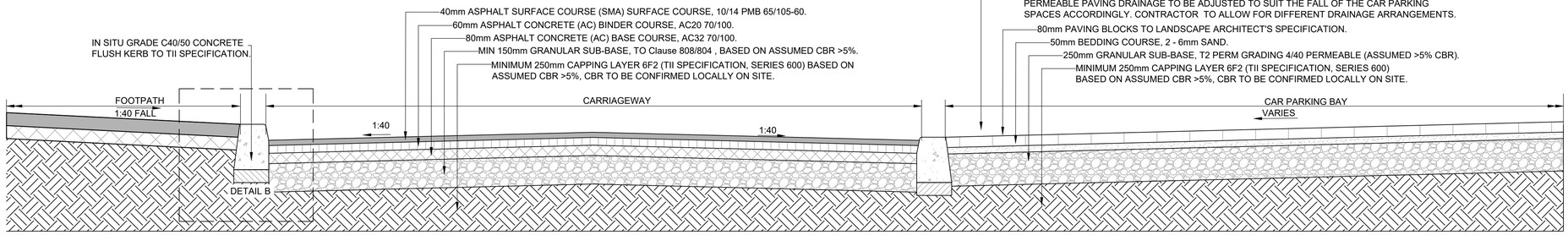
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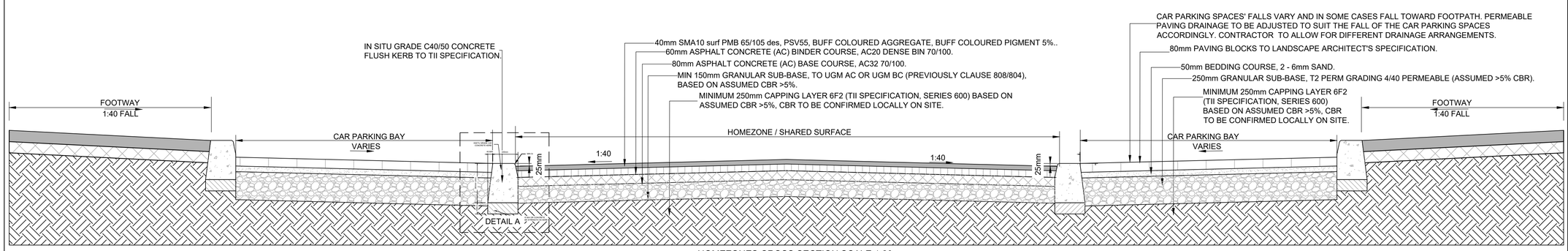
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PROPOSED SUDS DETAILS
SHEET 2 OF 2

SHEET NUMBER
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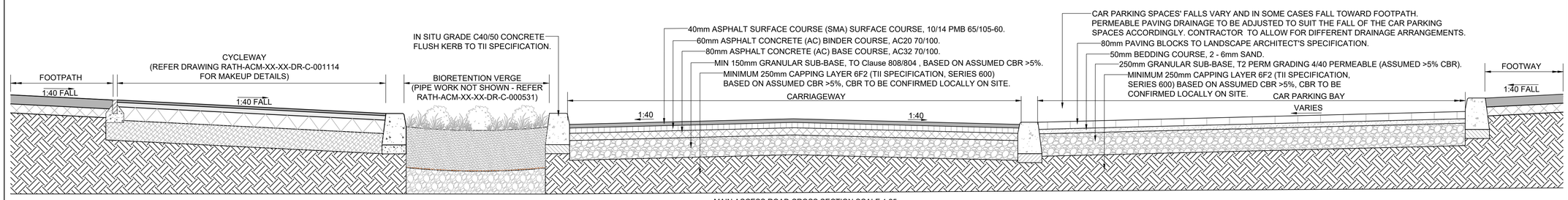
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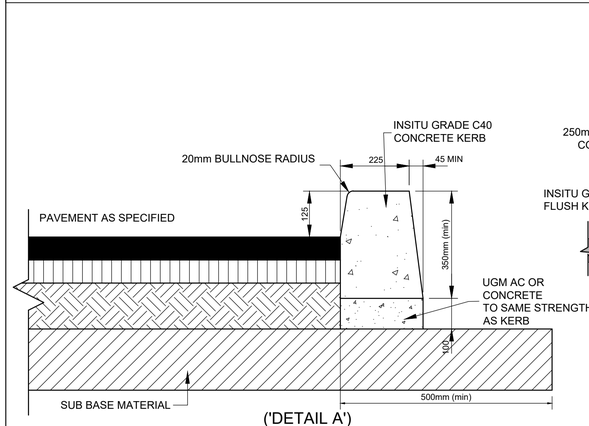
6.0m LOCAL STREETS CROSS SECTION SCALE 1:20



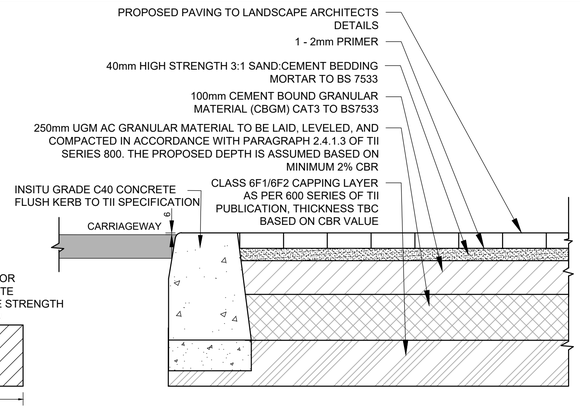
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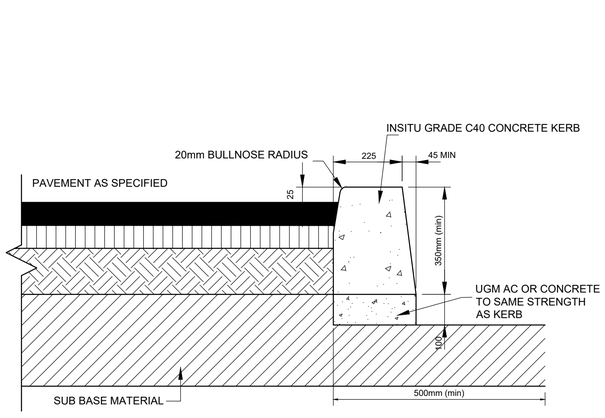
MAIN ACCESS ROAD CROSS SECTION SCALE 1:25



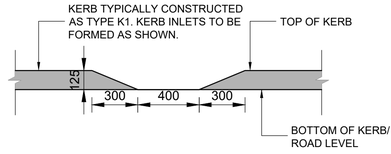
('DETAIL A')
ROAD KERB (IN-SITU CONCRETE 125mm UPSTAND)
SCALE 1:10



ROAD KERB (IN-SITU CONCRETE DROPPED KERB - 6mm)
SCALE 1:10



ROAD KERB (IN-SITU CONCRETE 25mm UPSTAND)
SCALE 1:10



LATERAL INLET KERB TYPE K5 - INLETS AT 3m C/C
SCALE 1:20

A	**PROPOSED ROAD DETAILS SHEET 1 OF 4**
001111	Scale: AS SHOWN

Project Management Initials: Designer: KM Checked: SG Approved: LS

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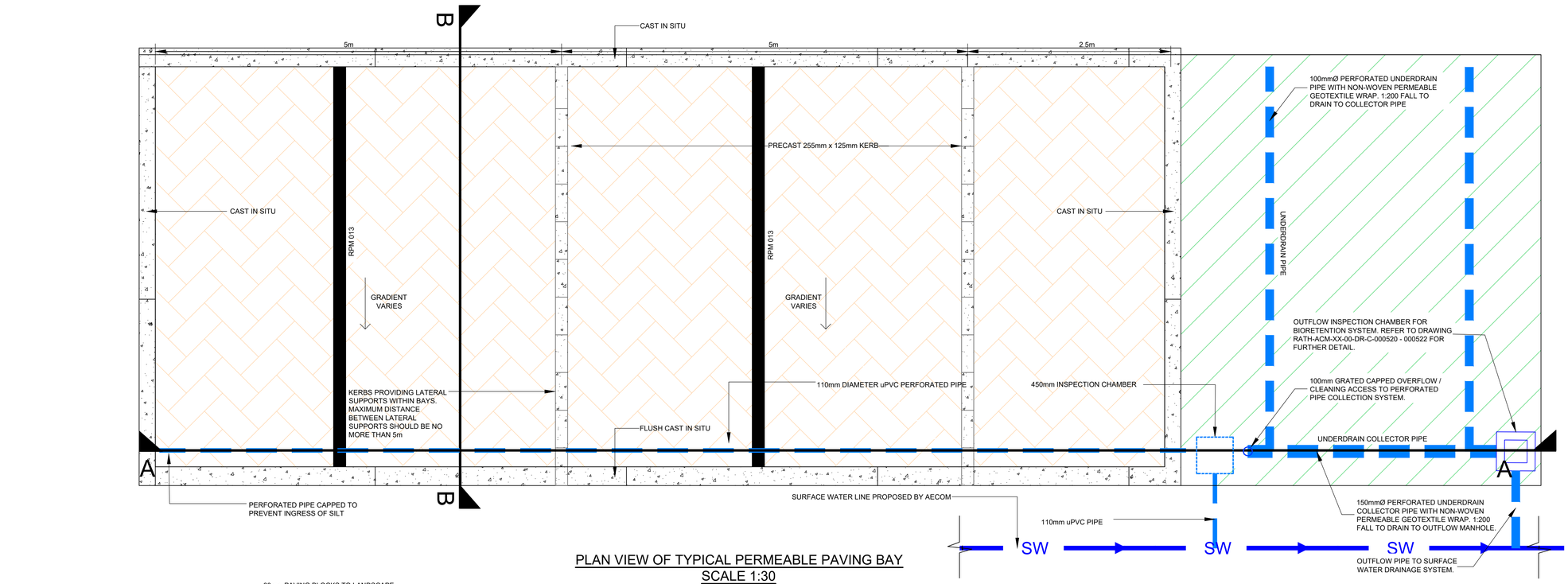
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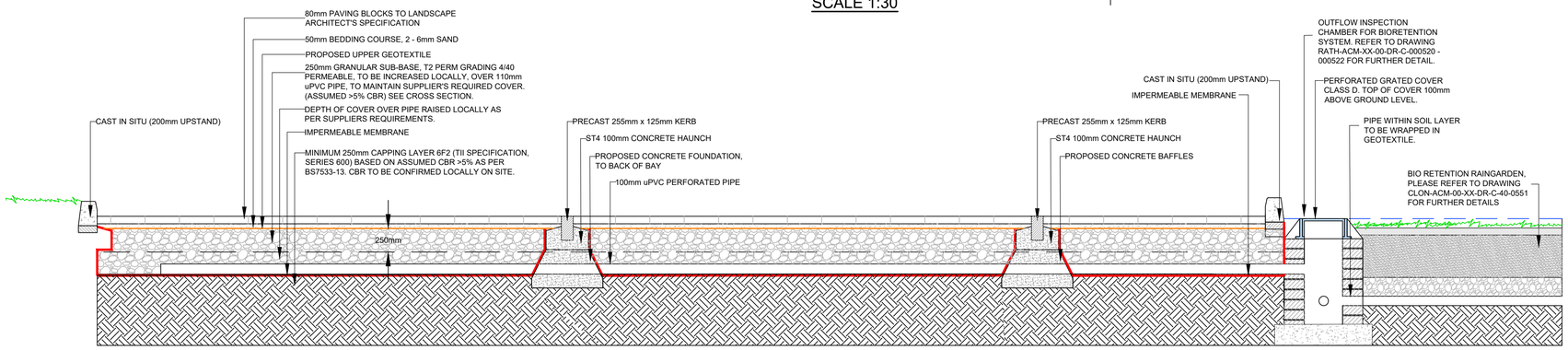
PROPOSED ROAD DETAILS
SHEET 1 OF 4

SHEET NUMBER

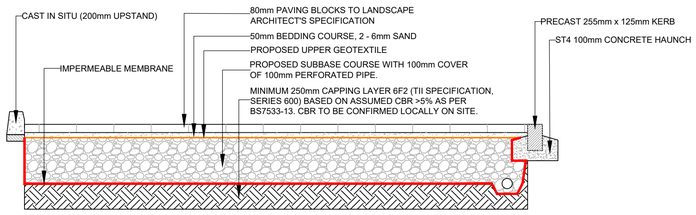
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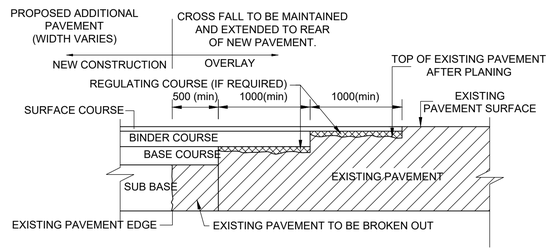
PLAN VIEW OF TYPICAL PERMEABLE PAVING BAY
SCALE 1:30



SECTION A-A: TYPICAL PERMEABLE PAVING BAY BUILD-UP LONGSECTION
SCALE 1:30

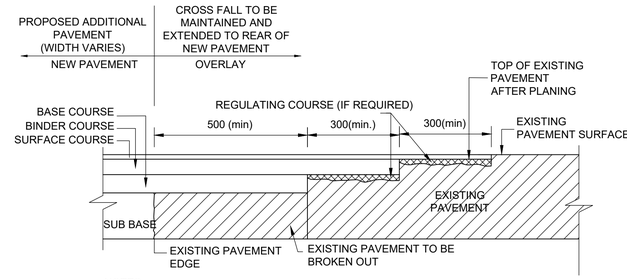


SECTION B-B: TYPICAL PERMEABLE PAVING BAY BUILD-UP LONGSECTION
SCALE 1:30



NOTES:
1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 920 & TII SPECIFICATION FOR WORKS
2. WHERE THE BASE COURSE IS TO BE LAID IN TWO LAYERS, THE UPPER LAYER OF BASE COURSE SHOULD BE STEPPED INTO THE EXISTING PAVEMENT BY 1m (MIN) WITH BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 1m (MIN) RESPECTIVELY.

LONGITUDINAL JOINT BETWEEN EXISTING & NEW PAVEMENT
SCALE 1:10



NOTES:
1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 920 & TII SPECIFICATION FOR WORKS.

2. WHERE THE BASE COURSE IS TO BE LAID IN TWO LAYERS, THE UPPER LAYER OF BASE COURSE SHOULD BE STEPPED INTO THE EXISTING PAVEMENT BY 300mm (MIN) WITH BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 300mm (MIN) RESPECTIVELY.

TRANSVERSE JOINT BETWEEN EXISTING & NEW PAVEMENT
SCALE 1:10

A	**PROPOSED ROAD DETAILS SHEET 2 OF 4**	
001112	Scale: 1:30	

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PROPOSED ROAD DETAILS
SHEET 2 OF 4

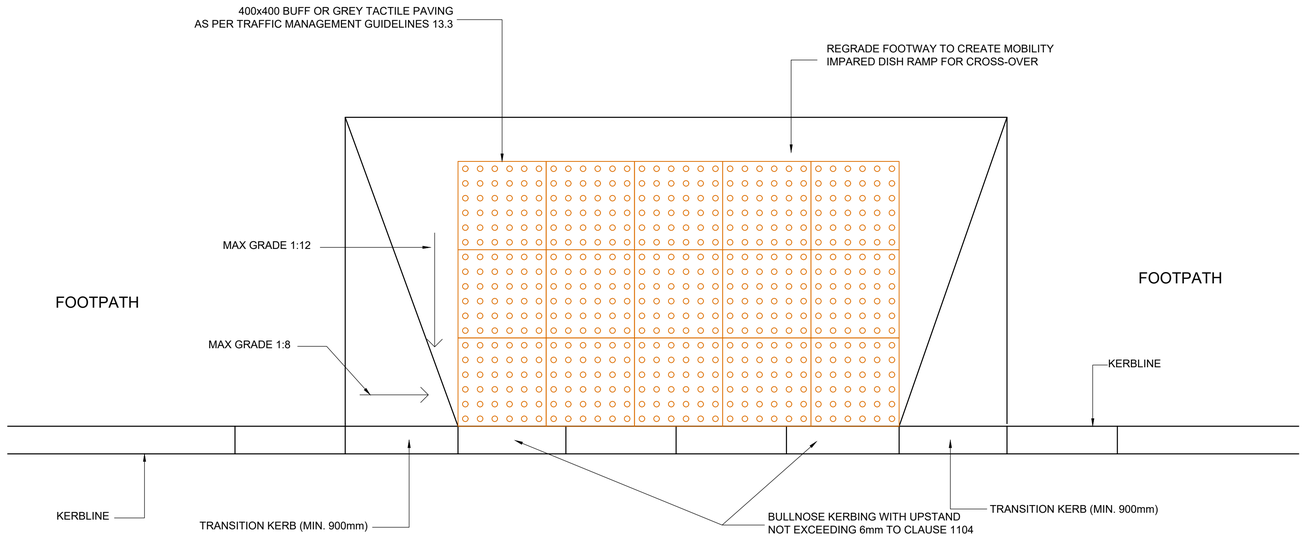
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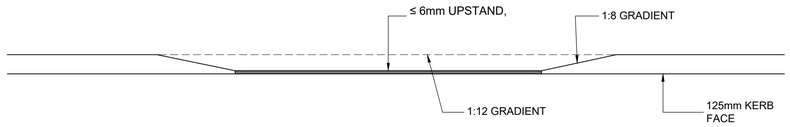
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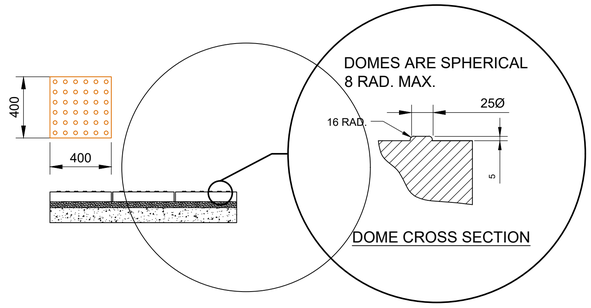
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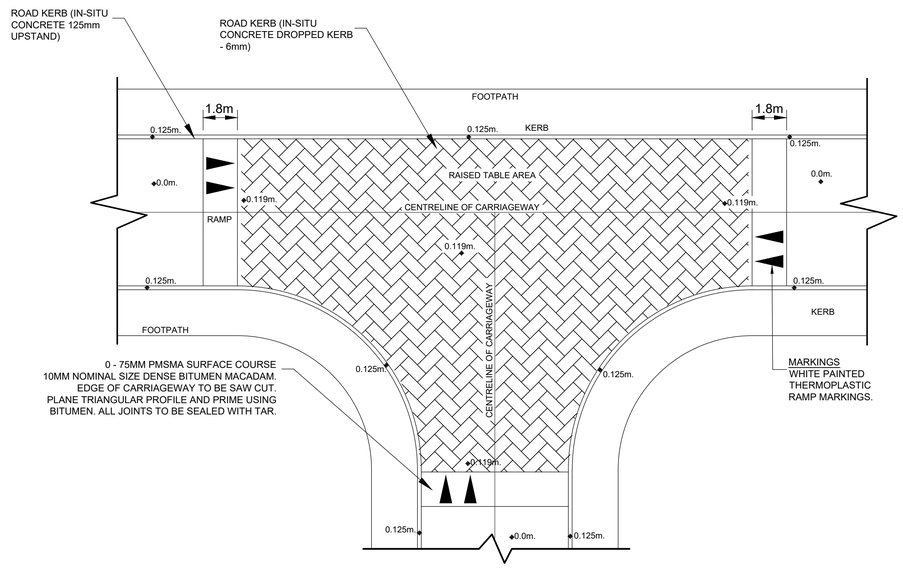
TACTILE PAVING AT UNCONTROLLED CROSSINGS
SCALE 1:20



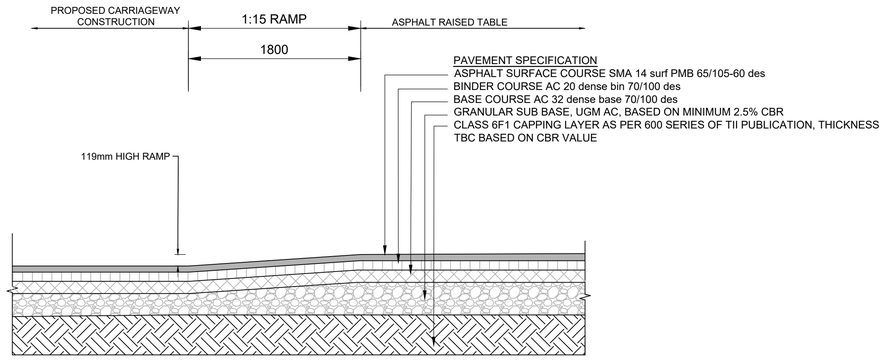
TACTILE PAVING ELEVATION
SCALE 1:20



TACTILE PAVING DETAILS
SCALE 1:20



TYPICAL ASPHALT RAISED TABLE
SCALE 1:20



ASPHALT RAISED TABLE TYPICAL
SECTION
SCALE 1:20

A	**PROPOSED ROAD DETAILS SHEET 3 OF 4**
001113	Scale: 1:20

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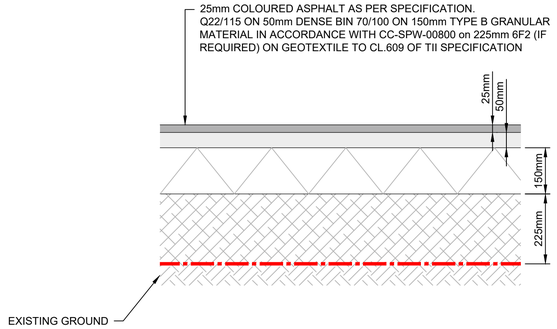
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PROPOSED ROAD DETAILS
SHEET 3 OF 4

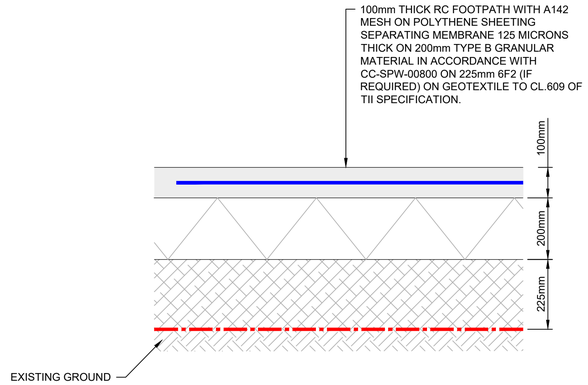
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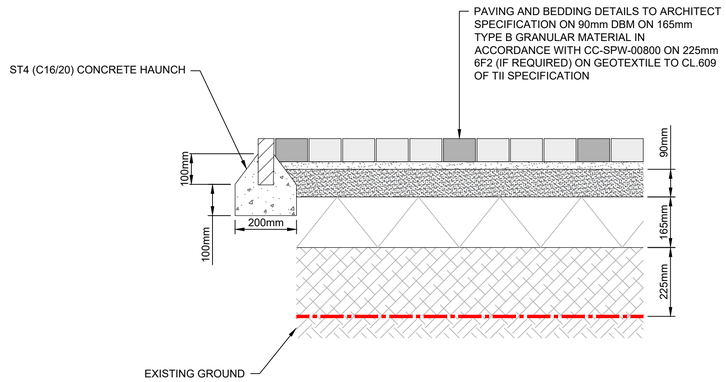
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CYCLEWAY ASPHALT SURFACE
(SCALE 1:10)



INSITU CONCRETE FOOTWAY
(SCALE 1:10)



PAVED PATHWAY
(SCALE 1:10)

A | **PROPOSED ROAD DETAILS SHEET 4 OF 4**
001114 | Scale: 1:10

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SHEET 4 OF 4

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