

- LEGEND:**
- SITE BOUNDARY
 - EXISTING SURFACE WATER SEWER
 - PROPOSED SURFACE WATER SEWER ENCASED IN CONCRETE
 - PROPOSED SURFACE WATER INSPECTION CHAMBER AS PER PART H (600-1000mm DEEP Ø450mm)
 - PROPOSED SURFACE WATER AJ AS PER PART H (400-600mm DEEP, Ø300mm)
 - PROPOSED DRAIN CHANNEL
 - PROPOSED CURVED SLOT DRAIN
 - 150Ø PRIVATE SW @ MINIMUM 1:100
 - FLOW CONTROL DEVICE (MANHOLE BENCHES AS PER MANUFACTURERS REQUIREMENTS)
 - PETROL INTERCEPTOR
 - IMPERMEABLE ATTENUATION TANK (STORMTECH OR SIMILAR APPROVED)
 - IMPERMEABLE ATTENUATION TANK (WAVIN AQUACELL OR SIMILAR APPROVED)
 - PROPOSED RAISED PLANTER
 - PROPOSED GREEN ROOF
 - EXISTING FOUL SEWER
 - PROPOSED FOUL SEWER
 - PROPOSED FOUL INSPECTION CHAMBER AS PER IW DETAIL STD-WW-13 (CIRCA 900mm DEEP)
 - PROPOSED FOUL INSPECTION CHAMBER AS PER PART H (600-1000mm DEEP, Ø450mm)
 - PROPOSED FOUL AJ AS PER PART H (400-600mm DEEP, Ø300mm)
 - 100Ø PRIVATE FOUL @ MINIMUM 1:60
 - PROPOSED RISING MAIN
 - EXISTING WATERMAIN
 - EXISTING FIRE HYDRANT
 - PROPOSED SERVICE CONNECTION (320)

IRISH WATER STANDARD DETAILS AND CODE PRACTICE:

ALL OF THE SITE WATERMAIN WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) "WATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WATER INFRASTRUCTURE".

MATERIALS:

1. ALL WATERMAIN PIPE MATERIALS TO BE IN ACCORDANCE WITH SECTION 3.9 OF THE CODE OF PRACTICE.
2. HYDRANTS TO COMPLY WITH BS 750, TYPE 2 SCREW DOWN TYPE & IRISH WATER CODE OF PRACTICE.
3. HYDRANT INDICATOR PLATES TO COMPLY WITH BS 3251 & IRISH WATER CODE OF PRACTICE.

TESTING:

1. ALL ELEMENTS TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.

IRISH WATER INSPECTIONS & AS-BUILTS:

1. CONTRACTOR TO ENSURE THAT IW FIELD ENGINEERS INSPECTS WORKS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL.
2. CONTRACTOR TO ENSURE THAT AS CONSTRUCTED ELEMENTS ARE ADEQUATELY SURVEYED PRIOR TO COVERING UP TO ENSURE AS-BUILT DRAWINGS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL CAN BE PRODUCED ON COMPLETION OF WORK.

IRISH WATER STANDARD DETAILS AND CODE PRACTICE (FOUL DRAINAGE):

ALL OF THE UNDERGROUND FOUL DRAINAGE WORKS, FROM THE PUBLIC SIDE INSPECTION CHAMBER TO NEW CONNECTION TO EXISTING PUBLIC MANHOLE, SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) "WASTEWATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE".

PIPE MATERIALS:

1. SERVICE CONNECTIONS FROM DWELLINGS TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE OF PRACTICE.
2. FOUL SEWERS TO BE IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.

TESTING:

1. FOUL SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.
2. CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 1.9 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.

IRISH WATER INSPECTIONS & AS-BUILTS:

1. CONTRACTOR TO ENSURE THAT IW FIELD ENGINEERS INSPECT WORKS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL.
2. CONTRACTOR TO ENSURE THAT AS CONSTRUCTED ELEMENTS ARE ADEQUATELY SURVEYED PRIOR TO COVERING UP TO ENSURE AS-BUILT DRAWINGS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL CAN BE PRODUCED ON COMPLETION OF WORK.

CONSTRUCTION DETAILS:

ALL SITE WATER SERVICES TO BE IN ACCORDANCE WITH CURRENT IRISH WATER INFRASTRUCTURE STANDARD DETAILS REFER TO IRISH WATER STANDARD DETAILS, DOCUMENT No. I.W.-CDS-5030-01

TECHNICAL GUIDANCE DOCUMENT PART H (SURFACE WATER & PRIVATE FOUL DRAINAGE):

ALL PRIVATE FOUL DRAINAGE UPSTREAM OF THE IRISH WATER PRIVATE SIDE INSPECTION CHAMBER AND ALL OF THE SURFACE WATER DRAINAGE SHOULD BE CARRIED OUT IN ACCORDANCE WITH PART H - DRAINAGE & THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

MATERIALS:

1. ALL UNDERGROUND PIPEWORK TO BE IN ACCORDANCE WITH TABLE 7 OF PART H & SECTION 11 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

MANHOLES:

1. ALL SURFACE WATER MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

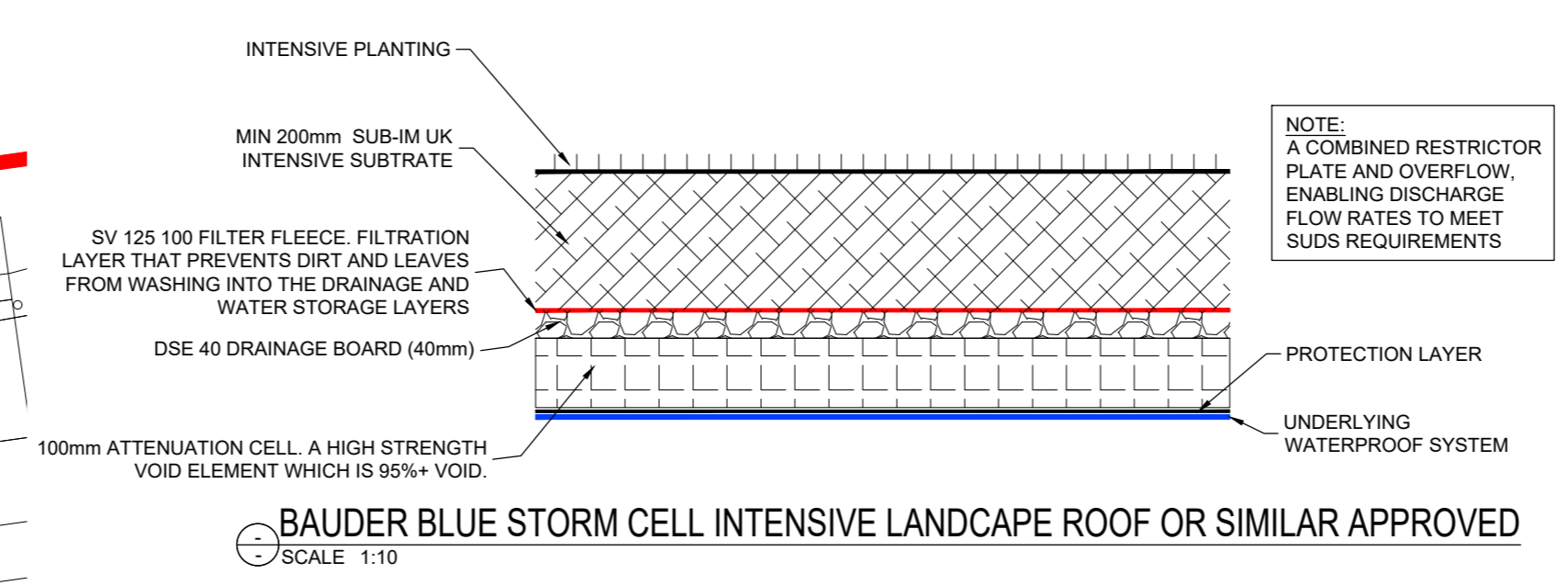
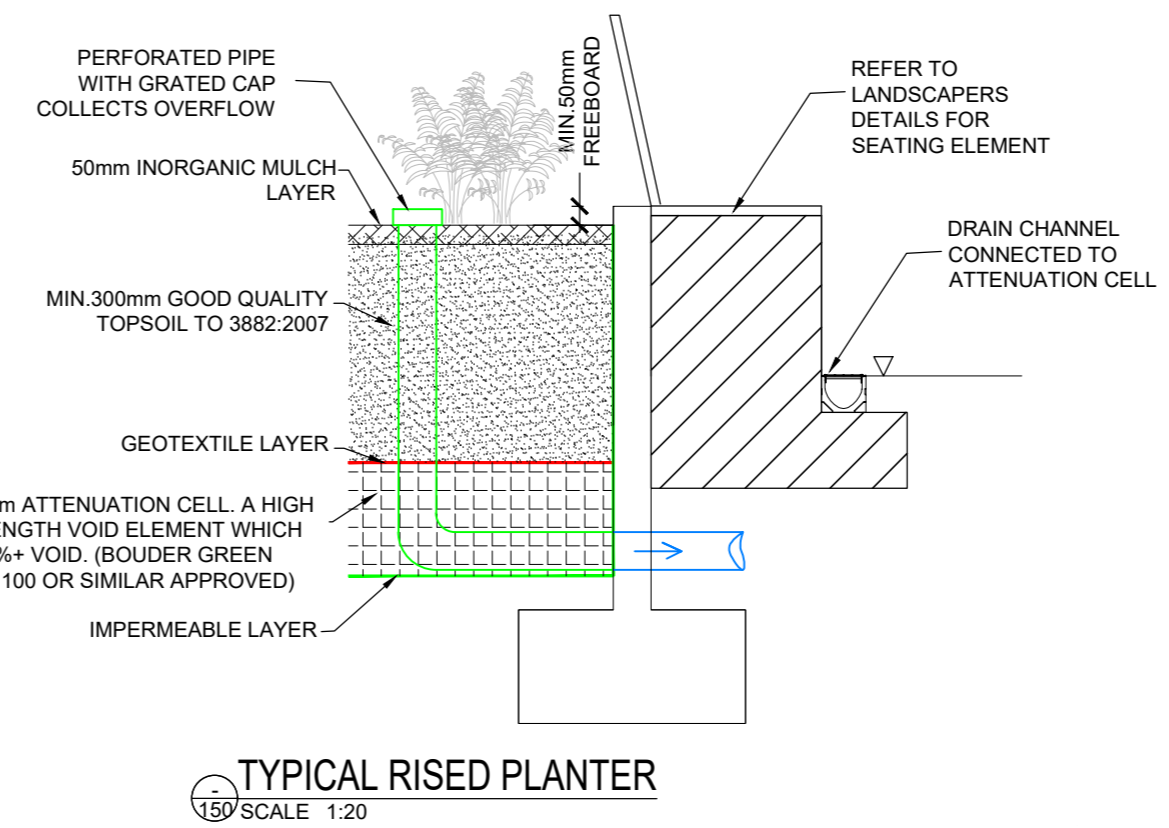
BEDDING:

1. ALL UNDERGROUND PIPEWORK TO BE IN ACCORDANCE WITH DIAGRAM 8 OF PART H & SECTION 11 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

TESTING:

1. TESTING TO BE IN ACCORDANCE WITH SECTION 12 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
2. ALL EXISTING SEWERS WITHIN THE SITES BOUNDARY SHOULD BE CCTV SURVEYED PRIOR TO COMMENCEMENT OF WORKS.
3. ALL NEW DRAINAGE SHOULD BE CCTV SURVEYED ON COMPLETION OF WORKS.

PROPOSED WATER SERVICES LAYOUT
SCALE 1:200 @ A1



Flow Control Device	
Node ID	Design Flow (l/s)
GREEN ROOF 1	0.7 l/s
GREEN ROOF 2	0.7 l/s
IC2.1	2.0 l/s
IC8	2.0 l/s
SW MH 02 FCD	5.0 l/s

ROOF STORAGE	
Node ID	Volume (m³)
GREEN ROOF 1	14.25 m³
GREEN ROOF 2	4.56 m³

RAIN GARDEN STORAGE	
Node ID	Volume (m³)
RAIN GARDEN	1.8 m³

ATTENUATION TANK				
Node ID	Volume (m³)	CL (m)	IL (m)	ToT(m)
ATT.TANK 1	5.32 m³	43.64m	42.68m	43.08m
ATT.TANK 2	16.78 m³	43.65m	42.52m	43.22m

Link ID	Length (m)	Slope (1:X)	Dia (mm)	US Node ID	US CL (m)	US IL (m)	Dia (mm)	DS Node ID	DS CL (m)	DS IL (m)	Dia (mm)
1.000	5.332	19.0	150	AJ1	43.690	43.140	300	IC2	43.690	42.860	450
1.001	5.350	89.2	150	IC2	43.690	42.860	450	IC3	43.690	42.800	450
1.002	9.954	99.5	150	IC3	43.680	42.800	450	IC4	43.690	42.700	450
1.003	4.744	59.3	150	IC4	43.690	42.700	450	SW MH 01	43.480	42.620	1200
2.000	7.099	100.0	150	AJ5	43.690	43.140	300	AJ6	43.690	43.069	300
2.001	8.026	25.2	150	AJ6	43.690	43.069	300	IC7	43.640	42.750	450
2.002	7.456	106.5	150	IC7	43.640	42.750	450	IC8	43.640	42.680	450
2.003	6.076	101.3	150	IC2	43.640	42.680	450	SW MH 01	43.480	42.620	1200
3.000	16.609	166.1	225	SW MH 01	43.480	42.620	1200	SW MH 02 FCD	43.710	42.520	1200
3.001	8.225	164.5	225	SW MH 02 FCD	43.710	42.520	1200	SW MH 03	43.640	42.470	1200
3.002	38.212	173.7	225	SW MH 03	43.640	42.470	1200	SW MH 04	43.580	42.250	1200
3.003	48.134	171.9	225	SW MH 04	43.580	42.250	1200	SW MH 05	43.600	41.970	1200
3.004	21.369	164.4	225	SW MH 05	43.600	41.970	1200	SW MH 06	43.450	41.840	1200
3.005	10.252	170.9	225	SW MH 06	43.450	41.840	1200	CONNECTION	43.530	41.780	1200
4.000	2.106	105.3	150	IC2.1	43.660	42.860	450	IC2	43.690	42.860	450
5.000	1.333	0.4	100	GREEN ROOF 1	46.700	46.200	-	AJ1	43.690	43.146	300
6.000	1.096	54.8	150	RAIN GARDEN	43.650	42.900	-	IC2.1	43.660	42.880	450
7.000	1.379	0.4	100	GREEN ROOF 2	46.700	46.200	-	IC4	43.690	42.933	450

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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECT'S AND SERVICE ENGINEERS DRAWINGS AND SPECIFICATIONS.
4. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.

ORDNANCE SURVEY MAPS REPRODUCED UNDER LICENCE No. CYAL50173115.
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REV.	DESCRIPTION	PROD.	VERIF.	APPR.	DATE

PLANNING

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CLIENT: KILKENNY COUNTY COUNCIL

PROJECT: NORE RIVER FACILITIES KILKENNY AT COUNTY HALL, JOHNS STREET LOWER, COLLEGE PARK, KILKENNY, CO. KILKENNY

TITLE: PROPOSED WATER SERVICES LAYOUT AND DETAILS

DATE: 12/07/2024 | SCALES: AS SHOWN @ A1

DESIGNER: STR	DRG. No.	REV.
PRODUCER: STR	22175-150	1
VERIFIER: BH		
APPROVER: KD		