

NOTE:
ATTENUATION VOLUME FOR SUBJECT SITE REQUIRED: 2.89m³
PROVIDED: 2.90m³
REFER TO ENCLOSED DRAINAGE DESIGN REPORT FOR DETAILS

NORTHERN UNDERGROUND STORMTECH ATTENUATION SYSTEM MC-3500
TOTAL VOLUME PROVIDED: 2,022 m³
TOTAL AREA: 1570m²
313 no CHAMBERS, 16 no END CAPS
BASE OF TANK LEVEL: @ +77.30
H.W.L. @ +79.30
REFER TO DRG REF D1568-D4 FOR DETAILS

WESTERN UNDERGROUND STORMTECH ATTENUATION SYSTEM SC-741
TOTAL VOLUME PROVIDED: 882 m³
TOTAL AREA: 1065 m²
339 no CHAMBERS
BASE OF TANK LEVEL: @ +78.00
H.W.L. @ +79.30
REFER TO DRG REF D1568-D4 FOR DETAILS

CATCHMENT AREA
OUTLINED IN BLACK DASHED LINE
A=3.816 ha (9.425 ac)

EXTENT OF LAND IN
APPLICANT'S OWNERSHIP
OUTLINED IN BLUE

EXTENT OF SUBJECT
PLANNING APPLICATION
OUTLINED IN RED
A=3.89ha (9.61ac)

NOTE:
DRAINAGE ARRANGEMENT AND DETAILS REMAIN UNALTERED.
THEREFORE, SHOWN DRAINAGE DETAILS ARE AS PER PREVIOUSLY
GRANTED PERMISSIONS REG. REF. SD18A/0314, SD19A/0408, SD20A/0167 &
SD21A/0239 AND THIS SUBJECT PLANNING APPLICATION HAS NO IMPACT ON
SHOWN SITE DRAINAGE.

1 2 3 - ALTERATION NUMBER FOR SUBJECT APPLICATION

THE SUBJECT ALTERATIONS FOR WHICH PLANNING PERMISSION IS SOUGHT FOR ARE AS FOLLOWS:

- ELEVATION ALTERATIONS:
 - A. CHANGE OF CLADDING COLOUR OF THE SECURITY HUT FROM GULL GREY TO ANTHRACITE.
- SITE PLAN ALTERATIONS:
 - A. OMISSION OF THE BUSINESS PARK EXISTING SLIDING GATE, SLIDING IN TO THE PROPOSED DEVELOPMENT CARPARK AREA;
 - B. PROVISION OF A NEW BOUNDARY FENCE TYPE A TO THE SOUTHERN AND EASTERN SITE BOUNDARY (DETAILS OF PROPOSAL SHOWN AT ENCLOSED CGI PICTURES);
 - C. PROVISION OF A NEW SECURITY HUT DISABLED CAR PARKING SPACE TO THE WEST OF THE HUT AT HOV ACCESS/EGRESS TO THE DEVELOPMENT.

ALL OTHER DETAILS SUCH AS SITE ACCESS, LANDSCAPING, EXTERNAL SURFACE FINISHES, WATER SUPPLY, DRAINAGE, ATTENUATION SYSTEMS ETC WILL REMAIN AS PER GRANTED PERMISSIONS REG. REF. SD18A/0314 (ABP-304148-19); SD19A/0408; SD20A/0167; SD21A/0239.

STORM WATER DRAINAGE MATERIALS
EXTRACTED FROM IRISH WATER 'GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS'

11.3. Pipe Types:
The following must be used in the construction of main pipelines or connections from gullies or private drains. The List below applies to all the Local Sanitary Authorities apart from Dublin City Council who do not approve the use of uPVC pipes in the public area.

11.3.1. Concrete:
Concrete sewer pipes with spigot and socket joints and rubber rings fittings to comply with IS EN 1916 and IS 6 2004 or equivalent standard. Class M or class H.

11.3.2. Clayware:
Verified clay pipes and fittings must comply with the requirements of I.S./EN 295-1/2/3:1992 or equivalent standard. Class 160 or 200.

11.3.3. uPVC:
Unplasticised P.V.C. pipes must comply with the 'Provisional Specification for Soil Pipes, Drains, Sewers and Fittings made of unplasticised P.V.C.' issued by the Department of the Environment.

B.S. 8005: Part 1 - Sewerage or equivalent;
B.S. 8010: Part 2 - Pipelines on land or equivalent; design, construction and installation;
B.S. 5955: Part 6 Code of Practice for the installation of unplasticised P.V.C. Pipework for Gravity Drains and Sewers or equivalent
EN1401 - Unplasticised P.V.C. sewer pipe specification
B.S.4514 - Unplasticised P.V.C. soil pipe specification
DEHLG 'Site Development Works' and Section H of the Building Regulations

11.3.1. Other:
The use of alternative pipe types requires the prior written approval of the Local Sanitary Authority.

11.3.2. Pipe material should not change between manholes.

11.3.3. The installation of sewers by pipejacking/drilling should have the prior written approval of the Local Sanitary Authority.

11.3.4. The Developer must obtain written permission from the Local Sanitary Authority when pipes are to be laid in landfill, contaminated sites or on poor ground.

FOUL SEWER PIPE MATERIALS
EXTRACTED FROM IRISH WATER 'CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE' IW-CDS-5030-03

3.13 Gravity Sewer Pipe Material Types
The types and fittings outlined herein shall be used in the construction of the Gravity Sewers. Pipe material should not change between manholes. The list below does not apply to pipes installed by pipe jacking or micro tunneling.

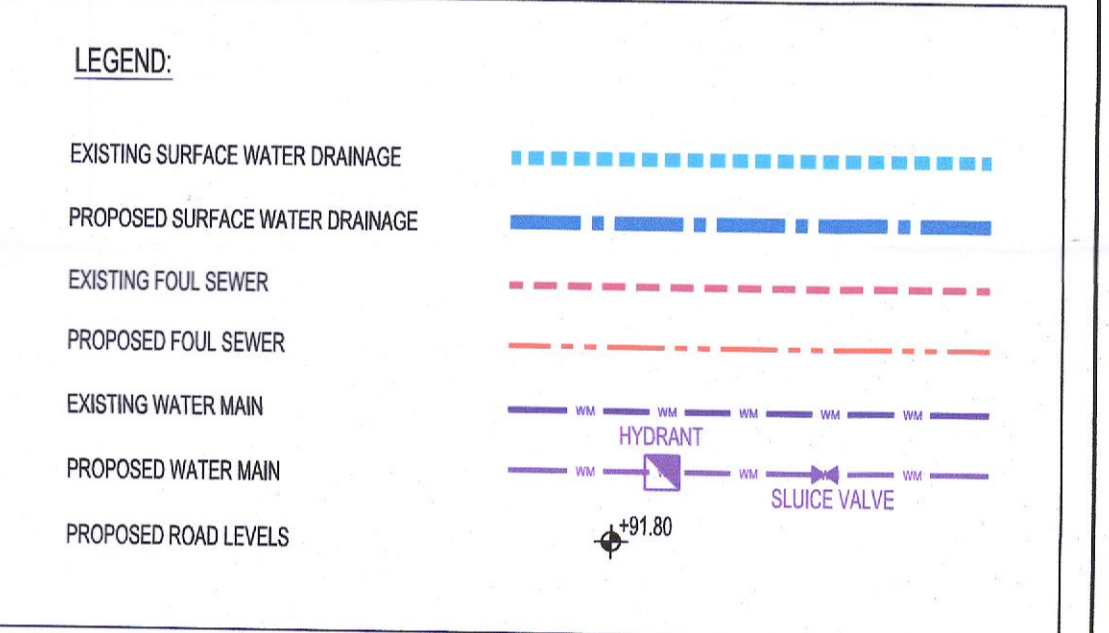
3.13.1 Concrete: Concrete Sewer pipes with spigot and socket joints and rubber ring fittings shall comply with IS EN 1916 (2002), BS 5911, Part 1 (2002 - 2010) and IS 6 (2004) or equivalent standard, strength Class 120 with minimum crushing loads in accordance with Table 8 of BS 5911-1 (2002-2010). All pipes and fittings shall have gasket type joints of spigot and socket or rebated form. (Pipe diameters 225mm and above)

3.13.2 Thermoplastic Structured Wall Pipes: Thermoplastic structured wall pipes shall comply with the provisions of IS EN 13476 (2007/2009) and with WIS 4-35-01 (2000). Pipes to be of Stiffness Class 8kNm² and to be capable of demonstrating a jetting resistance of 4,000 psi (280 Bar) without damage when tested in accordance with Section 6.10 of WIS 4-35-01. (Pipe diameters 150mm up to 450mm);

3.13.3 Unplasticised PVC: Unplasticised PVC pipes, joints and fittings for service connections shall comply with the provisions of BS 4660 and BS EN 1401 - Part 1. Push fit joints shall be spigot and socket. (Pipe diameter 100mm);

3.13.4 Other: The use of alternative pipe types and materials will require the prior written agreement of Irish Water.

Watermain Materials Selection: Mains and Service Connections
Water Mains suitable for Works and approved by Irish Water shall be either ductile iron (DI) or polyethylene (PE), with PE80 or PE100 rating (MDPE, HDPE or HPE). All plastic water pipes shall be blue in colour. U-PVC pipes shall not be used on water supply networks, unless a compelling reason is provided for its use.



PL8	15/02/22	ED	-	-	ISSUED FOR FURTHER PLANNING ALTERATIONS
Mark	Date	By	CHK	App.	Revision
Drawing Status					
PLANNING (ALTERATIONS 2022)					
Job Title					
PROPOSED DEVELOPMENT AT KINGSWOOD BUSINESS PARK, BALDONNEL, DUBLIN 22					
Drawing Title					
DRAINAGE & WATERMAIN LAYOUT					
Architect/Client					
JMC VAN TRANS LTD					
KAVANAGH BURKE CONSULTING ENGINEERS					
Tel: 01-450 0694		Unit G3, Calmount Pk.		Ballymount, Dublin 12.	
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DR	ED	Checked	-	Approved	UB
Scale: 1:500	Date: June 2022				
Job No. D1568	Drawing No. D3	Rev. PL8			