



Pipe Specifications:

Wastewater Pipes:

Unplasticised PVC; Unplasticised PVC pipes and fittings shall comply with the provisions IS EN 1401 2009/2012. Pipes to be application area code "UD", Stiffness Class 8kN/m2
Provision for jetting shall be based on the WRc
Sewer Jetting Code of Practice, June 1997. Pipes to be capable of resisting a maximum jetting pump pressure of 2,600psi (180 Bar) without damage.
(Sewer diameters 150mm up to 450mm, Service Connections of 100mm diameter.

Water Pipes:

MDPE pipes shall be of a type PE-80 and have an SDR-11 rating. They shall conform to IS EN 12201: Part 1 and Part 2 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure – Part 1, General, and Part 2, Pipes) and I.S. EN 12201-3 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure – Part 3 Fittings).
Joints shall be push in rubber ring joint. Thrust blocks shall be used in accordance to STD-W-28
Depth of Cover:

Wastewater:

Gravity Sewers and Rising Mains shall be designed in accordance with the requirements of BS 9295. As a general guide the, minimum depth of cover from the finished surface to the crown of pipework without protection should be as follows:

- Areas without any possibility of vehicular access - depth not less than 0.5 m;
- Driveways, 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;
- Driveways, parking areas and narrow streets without footways (e.g. mews developments) with access for vehicles with a gross vehicle weight in excess of 7.5 tonnes - depth not less than 0.9 m;
- Agricultural land and public open space - depth not less than 0.9 m;
- 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 1.2 m.

The depth of cover to pipework can be reduced by the installation of concrete beds and surrounds.

Water:

The desirable minimum depth of cover from the finished ground level to the external crown of a single premise Service Connection pipe shall be 750mm with an absolute minimum of 600mm for short distances (subject to Irish Water agreement). The desirable depth of cover at the Boundary Box should be 600mm +/- 25mm, with a maximum depth of 750mm.

The minimum depth of cover from the finished ground level to the external crown of a Water Main shall be 900mm where the pipe is to be located in housing estate roads. A greater depth of cover and/or greater strength pipe and/or a higher class of bedding may be required where higher traffic loading is anticipated. Depths may be altered to avoid obstructions, including separation distances between other utility services. The desirable cover for a water main should be 1,200mm, where practicable and should not exceed 3.0m. The desirable maximum cover for service connection pipe should be 1,200mm, where practicable.

Legend

Proposed Wastewater Manhole

Proposed Inspection Chamber

Existing Wastewater Sewer

Proposed Wastewater Sewer

Site Boundary

Connection Point

Boundary Box

Hydrant 6-46m from buildings

Air Valve

Wash Out Hydrant

Sluice Valve

Road Gully

Existing Watermain

New Watermain

Water Service Connection

Legend

Infiltration blanket under car park

Soak away crates

Bio-Retention Area

Treepits 2.5*2.5 m wide, 2.35mm deep

NOTE: interconnecting pipes between each treepit not shown

Road Gully

New Gully Kerb

New SW Pipes

New SW Pipes

Pre-Cast Concrete Manhole

Site Boundary



Red line indicates site boundaries.

Co-Ordinates at Site Entrance, X
ITM: 497054, 591272
ING: 097081, 091214

Refer to revision sheet for all amendment details				Client: Wrightwood Developments			
				Project Title: New Development at Ardshanavooley, Park Road, Killarney			
				Drwg Title: Combined Drainage Layout			
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