

# Basic Standards

The following standards represent the minimum standards that are acceptable to Uisce Éireann to consider the takeover of a Group Sewerage Scheme (GSS) as and from 1st January 2014. Schemes will only be taken over (TiC) when fit for purpose and free from significant defects that would impact on customer service, water quality or asset longevity.

## 1. THRESHOLD LEVELS

### 1.1 Quality

- a. Scouring facility at all low points and terminal points of any rising mains.
- b. Air Valves at high points such that any rising main can be drained down/recharged.
- c. Where practicable at reasonable cost, dead ends shall be eliminated.

### 1.2 Service

- a. Individual customers should have separate connections of 100mm minimum dia.
- b. Pressure at highest connection point of any rising main >15m.
- c. Pipe diameter: - sewer network shall be configured such that sewer lines serving any element of same shall comply with following minimum pipe sizes:
  - 2-20 properties not <150mm Nominal Bore; Gradient between 1:60 & 1:150
  - >21 Properties not <225mm Nominal Bore; Gradient between 1:100 & 1:200
- d. Access to sewers and drains should be provided at maximum intervals of 90m and at all; changes of direction, changes of gradient, at the head of sewer and drain lengths, at sewer junctions, changes in pipe diameter, at the point of connection of a branch drain with a main drain or sewer.

A scheme can include a combination of pipe sizes listed above.

### 1.3 Assets

- a. Minimum Cover to sewer lines not less than 750mm in grasslands.
- b. Minimum Cover to sewer lines not less than 900mm in verges or in surfaced roads.
- c. All valves and fittings have suitable marker posts.
- d. All covers, chambers, valves and fittings are operable and defect free.
- e. CCTV Survey of all sewer mains compiled in accordance with the Water Research Centre's (WRC); **Manual for Sewer Condition Classification (MSCC) 5<sup>th</sup> Edition** and the scoring scheme of the **Manual for Sewerage Risk Management (SRM) Manual 5** to identify any defects and indicate the requirement for any repairs to be carried out in advance of the TiC.

Any deviation from the above standards will require approval of Uisce Éireann and shall only be considered on receipt of technical report justifying same.

## **2. AS-CONSTRUCTED DRAWINGS**

### **2.1 Information Required:**

Drawings shall be supplied for the sewer network system.

The plans submitted should indicate the following:

- a. GSS Name, North point, Ordnance Grid reference for the centre of the GSS.
- b. Line and layouts of sewer mains (including diameter and material of sewer pipes), manholes, inspection chambers, valves, pumping stations & assets, etc.
- c. Locations of service connection with reference number linked to Connections List.
- d. Where available locations of service pipes showing size of service pipe above 100mm
- e. Confidence rating to be included on sewer main information (1= High 5= No Confidence).
- f. Location of connection to public sewerage network.
- g. Wayleaves should be indicated on layout map/s and indexed to Wayleave Schedule.

### **2.2 Submission of Drawings**

- a. Drawings should be prepared using an electronic system and submitted in standard Autocad (Dwg) or Mapinfo file format. Drawings can be uploaded to Uisce Éireann ECM system (link to be set up for LA contact), or;
- b. Hard copy drawings should be emailed to Uisce Éireann GWS Nominated contact in pdf format.

Plan scales should be in common use, i.e., 1:200, 1:500, 1:250, 1:1000 or 1:2500 as appropriate. Site layout drawings for all Assets (Pumping Stations, etc.) to be to at least 1:500 scale, showing building details/kiosk details, pipes, fenceline, etc. and shown extent of site ownership.