

An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil Department of Housing, Planning and Local Government



#### Development Infrastructure

Maria O'Dwyer Connections & Developer Services

Clayton Silver Springs Hotel, Cork

10 October 2019





#### **Development Infrastructure**





2 | Image is courtesy of Glenveagh Homes Ltd

# A national utility approach

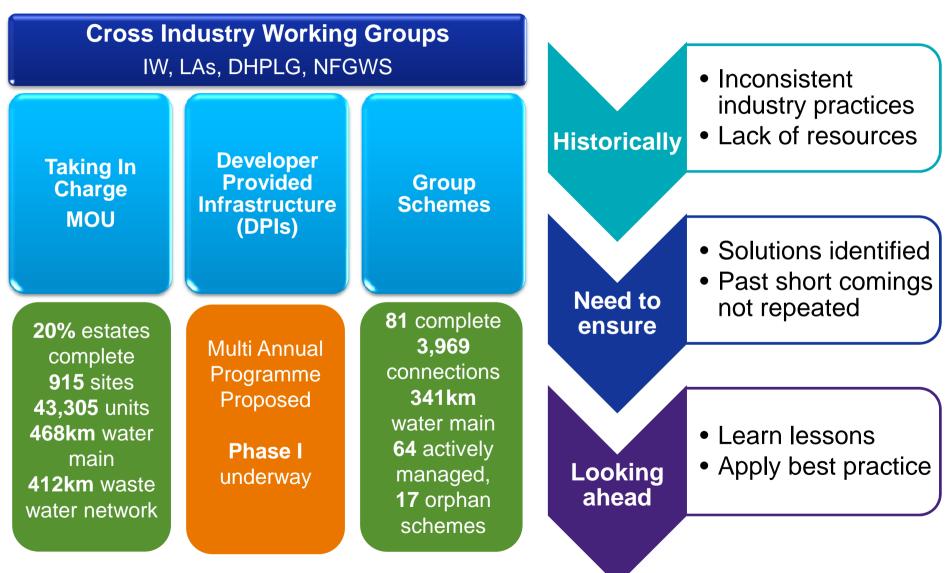
- Enable development & partner with industry
- Encourage and support growth where people want to live and work
- New networks
  - High quality water services
  - Resilient and future proofed
  - Low maintenance
  - Low leakage/ingress
- Cost effective = efficient investment
  - Deliver in a plan led way
  - Design and build 1<sup>st</sup> time right



Rialtas na hÉirean

#### **Legacy Development Infrastructure**





4 | Footer

## **Identifying Best Practice**



- Local Authority Consultative Group established
- Expert practitioners
  - input into national technical documents
  - evaluated technical documents developed by Irish Water
  - identified gaps
- Irish Water consulted wider industry
  - CIF/ IHBA
  - Material providers





Comhairle Cathrach Chorcaí **Cork City Council** 









Comhairle Cathrach & Contae Phort Láirge Waterford City & County Council





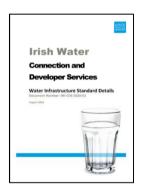
Comhairle Chontae na Gaillimhe **Galway County Council** 

#### **Irish Water Technical Documentation**



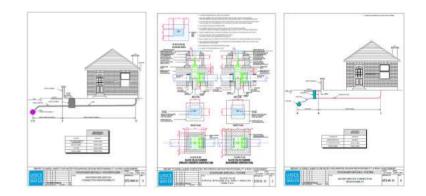
#### **Standard Details**

- Published April 2016
- Revised December 2017



#### **Codes of Practice**

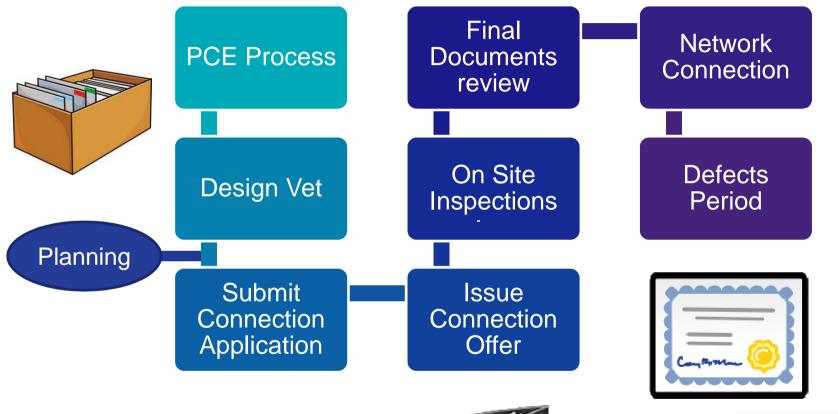
- Published in December 2016
- Revised December 2017



- Available on <u>www.water.ie/connections/</u>
- Revisions proposed in 2019
- Self-Lay connection agreements for residential developments in use since March 2018 (to mandate Irish Water QA requirements)

## How Quality Assurance process works









## **Embedding QA Regime**



- Pilot 18 sites with CIF & developer support
- Mandated Self Lay Connection Agreement
  - 4,000 Irish Water site visits undertaken since Apr'18
  - Supported by LA staff
- Early Days
  - Gap between the high quality water services designs and the infrastructure constructed
  - Learning for developers as significant change in work practices required
- Good engagement once rationale explained



#### Non Compliances, Separation, Water Quality

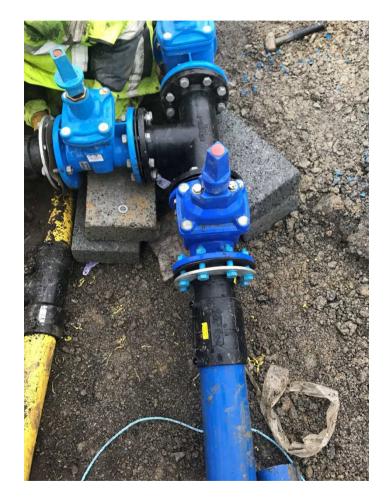




## **Quality & Integrity of PE Watermain**







#### **Good Industry Practices on Site**



Melted fitting identified by sub contractor's own QA process



Fittings appropriately marked to indicate it's compromised





# **Sewer Infrastructure Alignment**

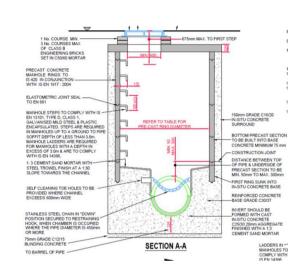


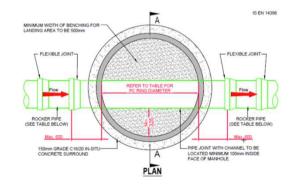


#### Manhole Construction, Bends, Flow







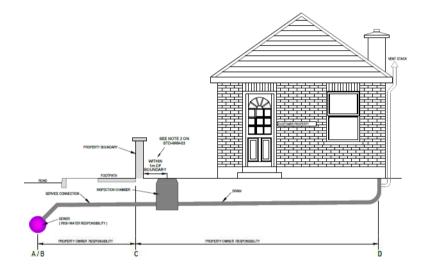


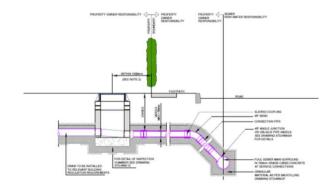




#### **Service Connections**

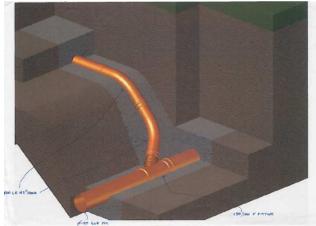






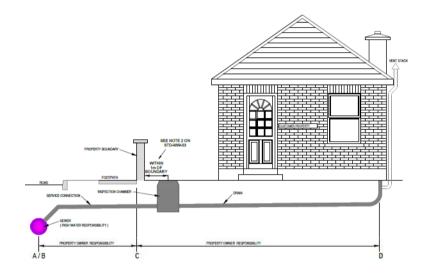
PIPE SIZE (mm)	ORADIENT
100	1.60
190 10 228	1:150 MINIMUM

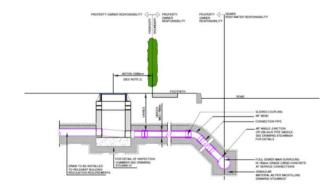




#### **Service Connections**







PIPE SIZE (mm)	ORADIENT
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190 10 228	1 THE MANNA



#### **Re-educating the industry**

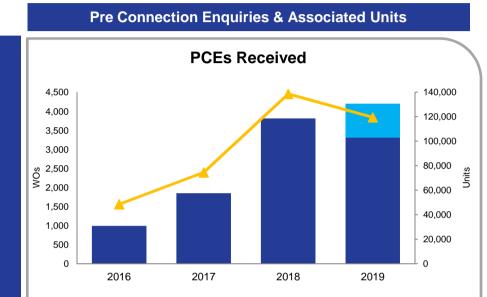


- Pragmatic Approach
- Not tolerating noncompliances
  - Since Apr'18 ~1,500 non conformance notices issued
- Identifying trends and communicating re-occurring issues to stakeholders and industry bodies
  - CIF/IHBA/ACEI/LAs
- Development industry is engaging positively in what is a big industry change

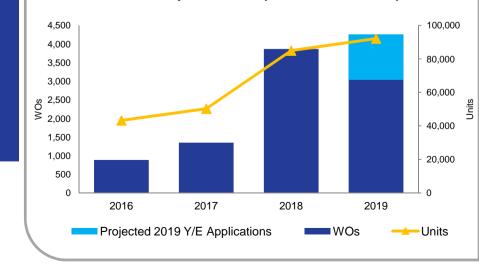


## **Development activity**





#### PCEs Responded To (Decision Issued\*)



#### **Connection Applications & Associated Units**



#### **Connections and Developer Services**



- Immediate Challenges
  - Responding to customer needs and the timely delivery of housing
- It's a Journey
  - System Changes
  - Mobilisation of new ways to deliver connections
  - Transition to Irish Water's Connection Charging Policy
  - Embed national approaches
- Looking ahead
  - Innovate and identify new ways of working





# Thank you for your time

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