



**WATER METER CHAMBER**  
SCALE 1:25

**DRAINAGE NOTES:**

- 1) ALL BUILDING DRAINAGE TO BE INSTALLED AND TESTED IN COMPLIANCE WITH THE CURRENT BUILDING REGULATIONS FOR DRAINAGE AND WASTE DISPOSAL.
- 2) ALL COMPONENTS AND MATERIALS ARE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH THE RELEVANT BS, AND LAID AND BACKFILLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 3) THE CONTRACTOR SHALL, BEFORE COMMENCING THE WORKS, VERIFY ALL SITE AND SETTING OUT DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUE AND PROPER SETTING OUT OF THE WORKS AND FOR THE CORRECTNESS OF THE POSITION, LEVELS, DIMENSIONS, AND ALIGNMENT OF ALL PARTS OF THE WORKS.
- 4) SMALL LIGHTWEIGHT ACCESS COVERS SHOULD BE SECURED (FOR EXAMPLE WITH SCREWS) TO DETER UNAUTHORISED ACCESS.
- 5) INSPECTION CHAMBERS AND MANHOLES IN BUILDINGS TO HAVE MECHANICALLY FIXED AIRTIGHT COVERS UNLESS THE DRAIN ITSELF HAS WATERTIGHT ACCESS COVERS.
- 6) MANHOLES DEEPER THAN 1m TO HAVE GALVANISED STEEL STEP IRONS OR FIXED LADDERS PROVIDED.
- 7) ALL ABOVE GROUND DRAINAGE TO INCORPORATE APPROPRIATE RODDING ACCESS FACILITIES.
- 8) IN-SITU CONCRETE FOR USE IN GENERAL DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH BS:8500, AND IN ACCORDANCE WITH BRE DIGEST 1 "CONCRETE IN AGGRESSIVE GROUND" TO MEET ANY EXPECTED SULPHATE CONDITIONS.
- 9) MANHOLE COVERS WITHIN BLOCK PAVED AREAS SHALL BE RECESSED WITH INFILL TO MATCH ADJACENT SURFACE FINISHES.

**NOTE:**

ALL PIPE BEDDING MATERIAL TO BE IMPORTED GRANULAR MATERIAL.

ALL BRICKWORK TO BE FULLY SEALED FROM WATER PENETRATION.

**IRISH WATER VALVE CHAMBER NOTES**

1. CHAMBER TO BE PRE CAST UNITS SUBJECT TO ENGINEERS APPROVAL. IF IN SITU CONCRETE TO BE USED, THE STRUCTURAL DESIGN AND REINFORCEMENT DETAILS ARE TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO THE ENGINEER FOR REVIEW.
2. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVER TO IS EN 124 RATING D400. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM ENGINEER.
3. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
4. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE IS EN 598, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
5. ANTI CORROSION TAPE TO BE PROVIDED AROUND ALL BURIED FLANGES.

6. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOTATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO ENGINEERS APPROVAL.
7. FLOW METERS REQUIRE A MINIMUM LENGTH OF PIPE ON EACH SIDE OF THE VALVE TO BE COMPLETELY FREE OF FITTINGS, VALVES, REDUCER ETC. TYPICALLY MIN 5 X PIPE DIAMETERS DOWNSTREAM, FINAL DIMS AS PER THE MANUFACTURES INSTRUCTIONS.
8. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
9. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF THE ENGINEER.

10. SLUICE VALVES SHALL BE DOUBLE FLANGED WITH DUCTILE IRON RESILIENT SEAL GATE VALVES. THEY SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074 AND THEY SHALL HAVE THE APPROPRIATE CE MARKINGS.
11. ALL SLUICE VALVES SHALL BE CLOCKWISE CLOSING.
12. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM THE ENGINEER.
13. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
14. ACTUATED KNIFE EDGE SLUICE VALVE TO M & E SPECIFICATION.
15. GRAVITY FOUL SEWER FLOW METER TO M & E SPECIFICATION.

16. TELEMETRY MINI PILLAR, DUCTWORK AND ALL ASSOCIATED FITTINGS AND REQUIREMENTS TO M & E SPECIFICATION.

17. LOCATION OF TELEMETRY MINI PILLAR TO ARCHITECTS DETAILS.

18. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

**WATERMAIN NOTES:**

THE ENTIRE WATER MAIN SYSTEM INSTALLED THROUGHOUT THE SITE MUST BE INSTALLED IN FULL ACCORDANCE WITH IRISH WATER DOCUMENTS

- CODE OF PRACTICE FOR WATER INFRASTRUCTURE IW-CDS-5020-03, DECEMBER 2016.
- WATER INFRASTRUCTURE STANDARD DETAILS, IW-CDS-5020-01, DECEMBER 2017.

EACH UNIT MUST BE PROVIDED WITH MEANS OF SEPARATE METERING, EITHER INDIVIDUAL OR BULK METERED.

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REV.	DATE	BY	DESCRIPTION
PL1	17.02.2020	CD	ISSUED

**CONDORF INVESTMENTS ICAV**  
Project Title  
HOUSING DEVELOPMENT AT BALLINDERRY RD., MULLINGAR, CO. WESTMEATH

Drawing Title  
APPROVED IRISH WATER STANDARD DETAILS FOR WATER INFRASTRUCTURE;  
- SHEET 7 OF 7

Author	Page Size	Scale
N.T.S.	A3	PLANNING
Drawn By	Date	Checked
FL	FEBRUARY 2020	CD
Project No.	Drawing No.	Revision
18262	C166	PL1