NEW 180Ø WATERMAIN CONNECTION TO THE EXISTING PUBLIC MAIN IN AGREEMENT WITH IRISH WATER.

NEW BULK METER TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-26

R148

OFF-LINE HYDRANT TO CALIBRATE METER TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-17

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

NEW ON-LINE HYDRANT TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-18

R158

Former St. Patrick's Church - Protected Structure

Cemetery

Burial Ground

THIS AREA ENCLOSED WITHIN RED LINE (BURIAL GROUND AND FORMER PROTECTED STRUCTURE GROUNDS) DOES NOT FORM PART OF THIS APPLICATION

Boycetown Court

ON-LINE HYDRANT TO IRISH WATER STANDARD DETAIL STD-W-18 WITH NO HOUSE LOCATED MORE THAN 46M FROM EACH HYDRANT IN ACCORDANCE WITH IRISH WATER CLAUSE 3.5.25 FOR WATER INFRASTRUCTURE.

PROPOSED AIR VALVE AS PER IRISH WATER CLAUSE 3.16.6 AND TO STANDARD DETAIL STD-W-22 TO BE LOCATED AT ALL HIGH POINTS.

NEW BULK METER TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-26A AND IN ACCORDANCE WITH SECTION 3.15.4 OF THE IRISH WATER CODE OF PRACTICE. EACH UNIT WILL BE METERED INTERNALLY WITH MANIFOLD CHAMBERS. SEE NOTE 5. CONNECTION OFF MAIN TO THE APARTMENT BLOCK TO BE 63mmØ ID

> MINIMUM SEPERATION DISTANCE FROM WATERMAIN TO HOUSE AS PER IRISH WATER CLAUSE 3.5.9 FOR WATER INFRASTRUCTURE

BLOCK A
152 TO 183 UNIT

BLOCK B
184 TO 206 UNIT

BLOCK C
207 TO 230 UNIT

BLOCK D
231 TO 240 UNIT

BLOCK E
241 TO 249 UNIT

BLOCK F
249 TO 260 UNIT

BLOCK G
261 TO 272 UNIT

PROPOSED ON-LINE AIR VALVE TO BE LOCATED AT HIGH POINTS. TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-22.

> MINIMUM SEPERATION DISTANCE FROM WATERMAIN TO HOUSE AS PER IRISH WATER CLAUSE 3.5.9 FOR WATER INFRASTRUCTURE

SERVICE PIPES FOR HOUSE NOS 13,14 AND 15 TO BE 32MM AS PER IRISH WATER CLAUSE 3.7.1 FOR WATER INFRASTRUCTURE

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

> MINIMUM SEPERATION DISTANCE FROM WATERMAIN TO HOUSE AS PER IRISH WATER CLAUSE 3.5.9 FOR WATER INFRASTRUCTURE

OFF-LINE HYDRANT LOCATED ON FOOTPATH TO IRISH WATER STANDARD DETAIL STD-W-17

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

PROPOSED AIR VALVE AS PER IRISH WATER CLAUSE 3.16.6 AND TO STANDARD DETAIL STD-W-22 TO BE LOCATED AT ALL HIGH POINTS.

COMMERCIAL PREMISES (CRECHE) SHALL HAVE A BULK METER TO DETAIL STD-W-26 AND IN ACCORDANCE WITH SECTION 3.15.3 OF THE IRISH WATER CODE OF PRACTICE. CONNECTION OFF THE MAIN TO BE 32mmØ ID.

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

OFF-LINE HYDRANT TO IRISH WATER STANDARD DETAIL STD-W-17 WITH NO HOUSE LOCATED MORE THAN 46M FROM EACH HYDRANT IN ACCORDANCE WITH IRISH WATER CLAUSE 3.5.25 FOR WATER INFRASTRUCTURE.

NEW BULK METER TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-26

NEW 180Ø WATERMAIN CONNECTION TO THE EXISTING PUBLIC MAIN IN AGREEMENT WITH IRISH WATER.

PROPOSED AIR VALVE AS PER IRISH WATER CLAUSE 3.16.6 TO STANDARD DETAIL STD-W-22 TO BE LOCATED AT HIGH POINTS

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

110MM LOOP WITH MINIMUM 4 HOUSES CONNECTED AS PER IRISH WATER CLAUSE 3.15.14 FOR WATER INFRASTRUCTURE

PROPOSED OFF-LINE SCOUR VALVE AND SCOUR CHAMBER TO BE LOCATED AT LOW POINTS WITH CONNECTION TO THE SURFACE WATER SYSTEM TO BE AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND SCOUR CHAMBER (WITH NON RETURN VALVE) TO BE AS PER CLAUSE 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE TO BE CONSTRUCTED TO IRISH WATER STANDARD DETAIL STD-W-30B.

UNDER CONSTRUCTION
ADJOINING APPROVED SHD APPLICATION (Ref.:ABP-306826-20)

LEGEND:

- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- PROPOSED SLUICE VALVE (S.V.)
- PROPOSED AIR VALVE (A.V.)
- PROPOSED SCOUR VALVE (Sc.V.)
- PROPOSED HYDRANT (H.)
- BOUNDARY BOX (BB)
- THRUST BLOCK (TB)
- PROPOSED BULK METER (Me)

NOTE:

1. ALL PIPE WORK, VALVES, CHAMBERS, NETWORK ARRANGEMENTS AND ALL ASSOCIATED WATERMAIN WORKS TO COMPLY WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS.
2. ALL NEW WATERMAIN MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 3.9 OF THE IRISH WATER CODE OF PRACTICE. MDPE PIPES SHALL BE OF A TYPE PE-80 AND HAVE AN SDR-11 RATING. THEY SHALL CONFORM TO IS EN 12201: PART 1, PART 2 AND PART 3.
3. THE PROPOSED 150mm WATERMAINS WILL BE LOCATED A MINIMUM OF 300mm FROM THE WASTEWATER INFRASTRUCTURE IN ACCORDANCE WITH SECTION 3.5.18 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE AND TYPICAL SERVICE LAYOUT DISTANCES (HORIZONTAL AND VERTICAL) SHALL BE AS PER IRISH WATER STANDARD DETAIL STD-W-11.
4. AIR PRESSURE TESTS TO ALL WORKS TO BE TAKEN IN CHARGE TO IRISH WATER CODE OF PRACTICE SECTION 4.10.
5. MANIFOLD CHAMBERS WILL BE USED TO PROVIDE A COMMUNAL BOX FOR THE APARTMENT BLOCK AND THAT EACH DWELLING UNIT WILL HAVE IT'S OWN SUPPLY PIPE AND METER AND STOP VALVE. ALL METERS IN THE MANIFOLD SHALL BE TAGGED TO INDICATE WHICH PROPERTY IS SUPPLIED AND ANY UNUSED OUTLETS WILL BE BLANKED OFF IN ACCORDANCE WITH SECTION 3.15.3 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE.
6. BULK METERS SHALL COMPLY WITH SECTION 3.15.4 OF THE IRISH WATERS CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
7. EACH HOUSE SHALL HAVE AN INDIVIDUAL CONNECTION WITH BOUNDARY BOX AS PER SECTION 3.15.2 OF THE IRISH WATERS CODE OF PRACTICE FOR WATER INFRASTRUCTURE. IN SOME CASES THE HOUSE SERVICE CONNECTION IS GREATER THAN 15m IN LENGTH. A SERVICE CONNECTION OF 32mmØ TO BE USED IN LOCATIONS WHERE THE SERVICE CONNECTION IS GREATER THAN 15m IN LENGTH, FOLLOWING APPROVAL FROM IRISH WATER.
8. THE PROPOSED WATERMAINS WILL BE LOCATED A MINIMUM OF 300mm FROM THE WASTEWATER INFRASTRUCTURE IN ACCORDANCE WITH SECTION 3.5.18 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE.
9. WATERMAIN T-JUNCTIONS SHALL BE AT 90 DEGREE ANGLES AS PER IRISH WATER DETAIL STD-W-07.
10. THRUST BLOCKS TO BE PROVIDED AT DEAD ENDS, BENDS, TEE JUNCTIONS, VALVE CHAMBERS (AS PER DETAILS) OR ANY ABRUPT CHANGE IN VERTICAL OR HORIZONTAL DIRECTION AND AT ANY LOCATION WHERE WATER PRESSURE IS LIKELY TO DISTORT THE PIPE LINE INSTALLATION OR CAUSE DISPROPORTIONATE MOVEMENT. THRUST BLOCKS TO BE IN ACCORDANCE WITH SECTION 4.9 OF THE IRISH WATER CODE OF PRACTICE AND IRISH WATER STANDARD DETAIL STD-W-28.
11. ANY NEW PLANTING OF TREES, SHRUBS ETC. TO BE IN STRICT ACCORDANCE WITH THE IRISH WATER STANDARD DETAIL STD-W-12A. ANY PROPOSED WATERMAIN LOCATED IN PROXIMITY TO EXISTING TREES SHALL BE IN ACCORDANCE WITH STANDARD IRISH WATER DETAIL STD-W-12.
12. SCOUR VALVE TO BE LOCATED AT SITE LOW POINT. THE SCOUR CHAMBER IS TO BE PROVIDED WITH A NON-RETURN VALVE TO PREVENT BACK FLOW TO THE WATER SUPPLY NETWORK AND AGREED WITH THE LOCAL AUTHORITY. SCOUR VALVE AND CHAMBER TO COMPLY WITH SECTION 3.16.4 AND 3.21 OF THE IRISH WATER CODE OF PRACTICE.
13. NOTE: THE FIRE SAFETY CERTIFICATE HAS NOT BEEN COMPLETED YET, BUT AS PART OF THIS DEVELOPMENT, IT IS CONFIRMED THAT HYDRANTS SHALL NOT BE LOCATED ANY MORE THAN 46m FROM ANY PART OF THE DEVELOPMENT UNITS.
14. INDICATOR AND MARKER POSTS TO BE PROVIDED AT ALL CHAMBERS AS PER SECTION 3.23 OF THE IRISH WATER CODE OF PRACTICE FOR WATER
15. ALL HYDRANTS TO BE IN COMPLIANCE WITH SECTION 3.5.25 OF THE IRISH WATER CODE OF PRACTICE FOR WATER
16. APPROPRIATE MEASURES ADHERING TO SECTION 3.26 OF THE IRISH WATER CODE OF PRACTICE FOR WATER WILL BE PROVIDED TO WATER INFRASTRUCTURE IN CLOSE PROXIMITY TO PLANTING TO PREVENT ANY DAMAGE TO INFRASTRUCTURE VIA ROOT INGRESS OR NEGATIVE IMPACTS TO PLANTING SUCH AS DAMAGE OF TREE ROOTS. THIS WILL BE ACHIEVED BY MEANS OF POLYETHYLENE PIPES WITH WELDED JOINTS AND ROOT PROTECTION BARRIERS.

S037

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NOTES
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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
P1	07/05/2021	UPDATED DETAILS FOR ISIRH WATER	DF	OS
P2	15.07.2022	ISSUED FOR PLANNING	JS	OS
P3	05.08.2022	LAYOUT REVISED - ISSUED TO IRISH WATER	DD	RFM
P4	30.08.2022	REVISED TO ADDRESS COMMENTS FROM IRISH WATER	DD	RFM
P5	05.09.2022	REVISED TO ADDRESS COMMENTS FROM IRISH WATER	DD	RFM

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Project	Kilcock West SHD 2 Boycetown, Kilcock, Co. Kildare.
Title	Proposed Watermain Layout
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Date	Drn by	Chkd by	Aprvd by	Scale	Revision
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