

NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MALONE O'REGAN CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DRAWING WAS ORIGINALLY CREATED.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, SPECIFICATIONS AND THE PRELIMINARY HEALTH & SAFETY PLAN.  
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE. DO NOT SCALE DIMENSIONS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.

NOTES

BY	DRAWING No. & REFERENCE	DATE
SURVEY		
ARCH	SHB5-OCK-DR-MOR-CS-P3-PL03	12/12/23

WATERMAIN LEGEND

- PROPOSED WATERMAIN LINE
- PROPOSED HYDRANT
- PROPOSED AIR VALVE
- PROPOSED SLUICE VALVE
- PROPOSED WATER METER
- PROPOSED THRUST BLOCK
- EXISTING WATERMAIN LINE
- EXISTING HYDRANT
- EXISTING WATER METER

WATERMAIN NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE DOCUMENT W-CDS-5020-03 AND IRISH WATER STANDARD DETAILS W-CDS-5020-01.
2. ALL WATERMANS (EXCEPT AS NOTED BELOW) TO BE HDPE (PE-100) WITH SDR-17 RATING AND SHALL COMPLY WITH SECTION 3.9 OF IRISH WATER CODE OF PRACTICE.
3. CONCRETE ANCHOR BLOCKS AT DEAD ENDS, TEES, BOTH SIDES OF SLUICE VALVES AND AT ALL BENDS OVER 22.5°.
4. MIN. COVER TO WATERMAIN TO BE 900MM.
5. WATERMANS TO BE PRESSURE TESTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 4.10.3.
6. PRIOR TO COMMISSIONING THE WATERMAIN SHALL BE SWABBED AND DISINFECTED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
7. SEE MANUFACTURER'S DETAILED INSTRUCTIONS PRIOR TO THE INSTALLATION OF WATER METER.
8. CHECK THAT FLOW ARROW DIRECTION IS POINTING IN THE SAME DIRECTION AS THE FLOW IN THE WATERMAIN.
9. DRAW-WIRES TO BE LEFT IN ALL DUCTS.
10. DF SPACER AND S.V. TO BE THE SAME Ø AS METER.
11. SEPARATION DISTANCES FROM EXISTING PLANTING SHALL COMPLY WITH IRISH WATER STANDARD DETAIL STD-W-12.
12. CONCRETE THRUST BLOCKS AT DEAD ENDS, TEES, BOTH SIDES OF SLUICE VALVES AND AT ALL BENDS OVER 22.5°. THRUST BLOCKS TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-28 (12-15 BAR TEST PRESSURE)
13. NO HYDRANTS OR SLUICE VALVES ARE TO BE LOCATED WITHIN TRAFFICATED AREAS
14. SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS, TREES, ETC. TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-11, STD-W-12, STD-W-12A.

IRISH WATER APPLICABLE DETAILS (NON-EXHAUSTIVE LIST)  
WATERMAIN DETAILS - TABLE

STD-W-04	GENERAL PIPE CONNECTIONS (SHEET 1 OF 7)
STD-W-05	GENERAL PIPE CONNECTIONS (SHEET 2 OF 7)
STD-W-06	GENERAL PIPE CONNECTIONS (SHEET 3 OF 7)
STD-W-07	GENERAL PIPE CONNECTIONS (SHEET 4 OF 7)
STD-W-08	GENERAL PIPE CONNECTIONS (SHEET 5 OF 7)
STD-W-09	GENERAL PIPE CONNECTIONS (SHEET 6 OF 7)
STD-W-10	GENERAL PIPE CONNECTIONS (SHEET 7 OF 7)
STD-W-13	TRENCH BACKFILL & BEDDING & REDUCED COVER TO PROTECTION SLAB DETAIL
STD-W-14	SLUICE VALVE FOR DUCTILE (D.I.) PIPE (<350mm DIA) (SHEET 1 OF 2)
STD-W-15	SLUICE VALVE FOR POLYETHYLENE (P.E.) PIPE (<350mm DIA) (SHEET 2 OF 2)
STD-W-16	ON-LIN HYDRANT FOR DUCTILE IRON (D.I.) PIPES (SHEET 1 OF 4)
STD-W-17	OFF-LINE HYDRANT FOR DUCTILE IRON (D.I.) PIPES (SHEET 2 OF 4)
STD-W-18	ON-LIN HYDRANT FOR POLYETHYLENE (P.E.) PIPES (SHEET 3 OF 4)
STD-W-19	OFF-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPES (SHEET 4 OF 4)
STD-W-27	MARKER POST/PLATES
STD-W-28	WATER MAIN THRUST & SUPPORT BLOCKS

5	LAYOUT & WATERMAIN REVISED	11.02.24	JD	PB
4	ISSUED FOR INFORMATION	19.12.23	KA	PB
3	ISSUED FOR INFORMATION	15.12.23	KA	PB
2	ISSUED FOR INFORMATION	14.12.23	JC	PB
1	ISSUED FOR INFORMATION	05.12.23	KD	PB
0	ISSUED FOR PLANNING	21.11.23	KD	PB

STATUS

P3 - FOR PLANNING

**MDR** Unit 2B Richview Office Park, Clonskeagh, DUBLIN 14 D14 XT57  
 MALONE O'REGAN CONSULTING ENGINEERS  
 T: +353 1 260 2655  
 E: dublin@mor.ie  
 W: www.maloneoregan.ie

Offices also in:  
 GALWAY T: +353 91 531 069 E: galway@mor.ie  
 WATERFORD T: +353 51 876 855 E: waterford@mor.ie

CLIENT  
 NDFA ON BEHALF OF KILDARE COUNTY COUNCIL

JOB NAME  
 SHB 4&5 - OCK - OLDTOWN MILL, CELBRIDGE

DRG. NAME  
 WATERMAIN LAYOUT

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	1:500	SEPT'2023	KD	PB	PB	5

DRG. NO.  
 SHB5-OCK-DR-MOR-CS-P3-140

