A1

PROPOSED CONNECTION POINT TO EXISTING WATERMAINWATERMAIN AS PER STD-W-26

Museum
NOTE:
IRISH WATER UPGRADE WORKS TO 750m OF EXISTING 75 & 100mm WATERMAINS UPSIZED TO 150m. REFER TO IRISH WATER BESPOKE CONFIRMATION OF FEASIBILITY LETTER.

EXISTING ESB CHAMBERS

OFF-LINE CALIBRATION HYDRANT AS PER STD-W-30A

SCOUR VALVES AND CHAMBERS AS PER STD-W-30 OUTFALL TO NEW STORMWATER DRAINAGE SYSTEM VIA 150ø PIPE

ON-LINE HYDRANT AS PER STD-W-19

ON-LINE HYDRANT AS PER STD-W-18

FUTURE CONNECTION

SCOUR VALVES AND CHAMBERS AS PER STD-W-30 OUTFALL TO NEW STORMWATER DRAINAGE SYSTEM VIA 150ø PIPE

MAIN STREET

OAKGLEN

Playground

STD-W-07

PROPOSED WATERMAIN & LEVELS LAYOUT

SCALE A1 1:500, A3 1:1000

NOTES:
ALL INFRASTRUCTURE IS TO BE INSTALLED & BUILT TO THE IRISH WATER CODES OF PRACTICE.

© HAYES HIGGINS PARTNERSHIP

WATERMAIN LEGEND:

- WM — DENOTES EXISTING WATER METER & WATERMAIN
- FH — DENOTES EXISTING FIRE HYDRANT & WATERMAIN
- WM — DENOTES EXISTING WATERMAIN & MANHOLE
- DENOTES PROPOSED 100mm ø HDPE PE100 WATERMAIN
- SV. — DENOTES PROPOSED SLUICE VALVE
- ScV. — DENOTES PROPOSED SCOUR VALVE
- AV. — DENOTES PROPOSED AIR VALVE
- BB. — DENOTES 25mm ø HDPE PIPE TO IRISH WATER APPROVED BOUNDARY BOX
- WM. — DENOTES PROPOSED WATERMETER
- H. — DENOTES PROPOSED FIRE HYDRANT

GENERAL WATERMAIN NOTES:

1. ALL WATERMAINS SHALL BE 100mm ø HDPE TYPE PE-80 WATERMAIN WITH AN SDR-11 OR SDR-17 RATING AND COMPLY WITH SECTION 3.9 OF THE IRISH WATER CODE OF PRACTICE.
2. ALL WATERMAINS SHOULD BE LOOPED TO AVOID DEAD ENDS AND SHALL BE BLUE IN COLOUR.
3. ONLY USE ALL FLANGED T's & ALL FLANGED VALVES.
4. USE ANTI-CLOCKWISE (LEFT-HAND CLOSING) SLUICE VALVES.
5. DO NOT USE DUCTILE IRON TAILS – USE FLANGE ADAPTORS WHERE APPLICABLE.
6. ONLY USE SCREW TYPE HYDRANTS.
7. THE MINIMUM DEPTH OF COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF THE IRISH WATER WATERMAIN SHALL BE IN A MINIMUM OF 1200mm
8. THE DEPTH OF THE SLUICE VALVE SPINDLE CAP TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-14 & STD-W-15.
9. THE DEPTH OF THE HYDRANT OUTLET TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-16 TO STD-W-19.
10. APPROVED MARKER TAPE AS PER IRISH WATER CODE OF PRACTICE.
11. NO PIPE, CABLE, CONDUIT OR OTHER SERVICE SHOULD BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN.
12. ENSURE MARKER PLATES ARE IN PLACE.
13. ALL WATERMAINS SHALL BE TESTED IN ACCORDANCE WITH SECTION 4.11.3 OF THE IRISH WATER CODE OF PRACTICE IN THE PRESENCE OF A MEMBER OF STAFF FROM IRISH WATER OR THEIR AGENTS. DETAILS OF TESTING PROCEDURE TO BE DISCUSSED ON SITE WITH CONTRACTOR.
14. ALL HYDRANTS AS PER 3.16.5 OF THE IRISH WATER CODE OF PRACTICE.
15. PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.
16. ALL CONNECTIONS POINTS TO BUILDING TO BE SERVICED WITH A MINIMUM OF 25mm OUTSIDE DIAMETER, 20mm INSIDE DIAMETER PE100 HDPE PIPE WITH AN SDR RATING OF 17.
17. ALL WATERMAINS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
18. BUTT FUSION WELDING AND ELECTRO FUSION JOINTING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINTING MACHINE/RIGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE IDENTITY OF THE HDPE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE INSTALLATION.
19. ALL TESTING (PRESSURE CHLORINATION & BACTERIAL) TESTS TO BE IN ACCORDANCE WITH SECTION 4.10 OF THE IRISH WATER CODE OF PRACTICE. THE ENGINEER IS TO INSPECT THE PRESSURE TEST AFTER THE WATER CONTROL METRES ARE INSTALLED. ALL HYDRANTS & VALVES ARE TO BE INCLUDED IN THE TEST.
20. ALL CERTIFICATION AND TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) TO BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINTING MACHINE.
21. A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.
22. CONNECTIONS TO THE IRISH WATER WATERMAINS SHALL BE IN ACCORDANCE WITH THE CONDITIONS AS SET OUT IN THE CONNECTION OFFER AGREEMENT.
23. WHEN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.

FIRE HYDRANT NOTES:

1. FIRE HYDRANTS TO BE POSITIONED A MINIMUM OF 6m FROM THE PROPOSED BUILDING FOUNDATIONS.
2. LOCATIONS OF FIRE HYDRANTS AS PER FIRE CERTIFICATE DRAWINGS.
3. FIRE HYDRANTS TO BE IN ACCORDANCE WITH THE FIRE OFFICER RECOMMENDATIONS.
4. ALL FIRE HYDRANTS TO BE LOCATED IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS. 1997 & TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 2006 STATUTORY INSTRUMENT 497 OF 1997.
5. FINAL VERIFICATION SHOULD BE SOUGHT FROM THE FIRE AUTHORITY FOR AGREED LAYOUT OF ALL HYDRANTS & THE NUMBER OF WATER SUPPLY CONNECTIONS TO THE FIRE WATER RING MAIN.

WATERMAIN NOTES:

THE CONTRACTOR IS TO INCLUDE FOR THE EMPLOYMENT OF A CHARTERED ENGINEER WITH PI INSURANCE TO €6.5M TO WITNESS THE INSTALLATION OF ALL AIR TESTS AND OTHER IRISH WATER QA AS REQUIRED UNDER THE IRISH WATER QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL , JANUARY 2018 VERSION 2. IT IS A REQUIREMENT OF THE MAIN CONTRACTOR TO AGREE THE REQUIRED QA WITH THE IW FIELD INSPECTORS, RETAIN ALL THE QA DOCUMENTS ON SITE AND REPAIR ANY DEFECTS. THE MAIN CONTRACTORS CHARTERED ENGINEERS AND THE MAIN CONTRACTOR ARE RESPONSIBLE FOR AGREEING ON SITE CONFORMANCE WITH IW PRIOR TO HAND OVER OF THE WORKS TO IW. THE PRICE FOR ALL THE ABOVE IS TO BE INCLUDED IN THE MAIN CONTRACTORS TENDER SUM.

NOTES:

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.
2. ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
4. DO NOT SCALE – WORK TO FIGURE DIMENSIONS ONLY.

QUALITY ISO 9001:2000 NSAI Certified

ENGINEERS IRELAND cpd ACCREDITED COMPANY

Referenced drawings

Dwg No.	Dwg Title

Issue register

Rev.	Date	Description	Dwn.	Chkd.	Appvd.
P1	26.03.20	PRELIMINARY ISSUE	EH	NP	NP
P2	06.04.20	PRELIMINARY ISSUE	EH	NP	NP
P3	21.04.20	PRELIMINARY ISSUE	EH	NP	NP
P4	04.08.20	PRELIMINARY ISSUE	EH	NP	NP
P5	14.10.20	PRELIMINARY ISSUE	EH	NP	NP
P6	22.12.20	PRELIMINARY ISSUE	EH	NP	NP
PL1	14.05.21	PLANNING ISSUE	EH	NP	NP

Client: LAOIS COUNTY COUNCIL

Job Description: OGP UNITS AT STRADBALLY, Co. LAOIS

Status: PLANNING

Drawing Title: PROPOSED WATERMAIN & LEVELS LAYOUT

Project No:	Drawing Ref:	Rev:
19KK018	C-004	PL1

Date:	Scale:
25.03.20	AS SHOWN

Drawn By:	Checked By:	Approved By:
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CADFILE: 19KK018-C-004 Proposed Watermain & Levels Layout.dwg