A1

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 DEPTH OF THE SLUICE VALVE SPINDLE CAP TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-14 & STD-W-15.

8. THE DEPTH OF THE HYDRANT OUTLET TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-16 TO STD-W-19.

9. AN APPROVED MARKER TAPE CONTAINING A TRACER WIRE, SHOULD BE AFFIXED TO THE TOP SURFACE OF ALL WATERMAINS.

10. NO PIPE, CABLE, CONDUIT OR OTHER SERVICE SHOULD BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN.

11. ENSURE MARKER PLATES ARE IN PLACE.

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.

12. ALL HYDRANTS TO BE PUT IN, IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF THE BUILDING REGULATIONS 2000/2007 S.S 5.1.6 T.G.D.B & B.5.1 T.G.B.D & THE D.O.E. "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS".

13. HYDRANTS TO BE LOCATED IN ACCORDANCE WITH THE FIRE OFFICER'S RECOMMENDATIONS.

14. PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.

15. 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.

16. ALL WATERMAINS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.

17. 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. e-005;

18. 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.

19. 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.

20. A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.

21. CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH WATER OR AN APPROVED IRISH WATER AGENT.

22. 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.

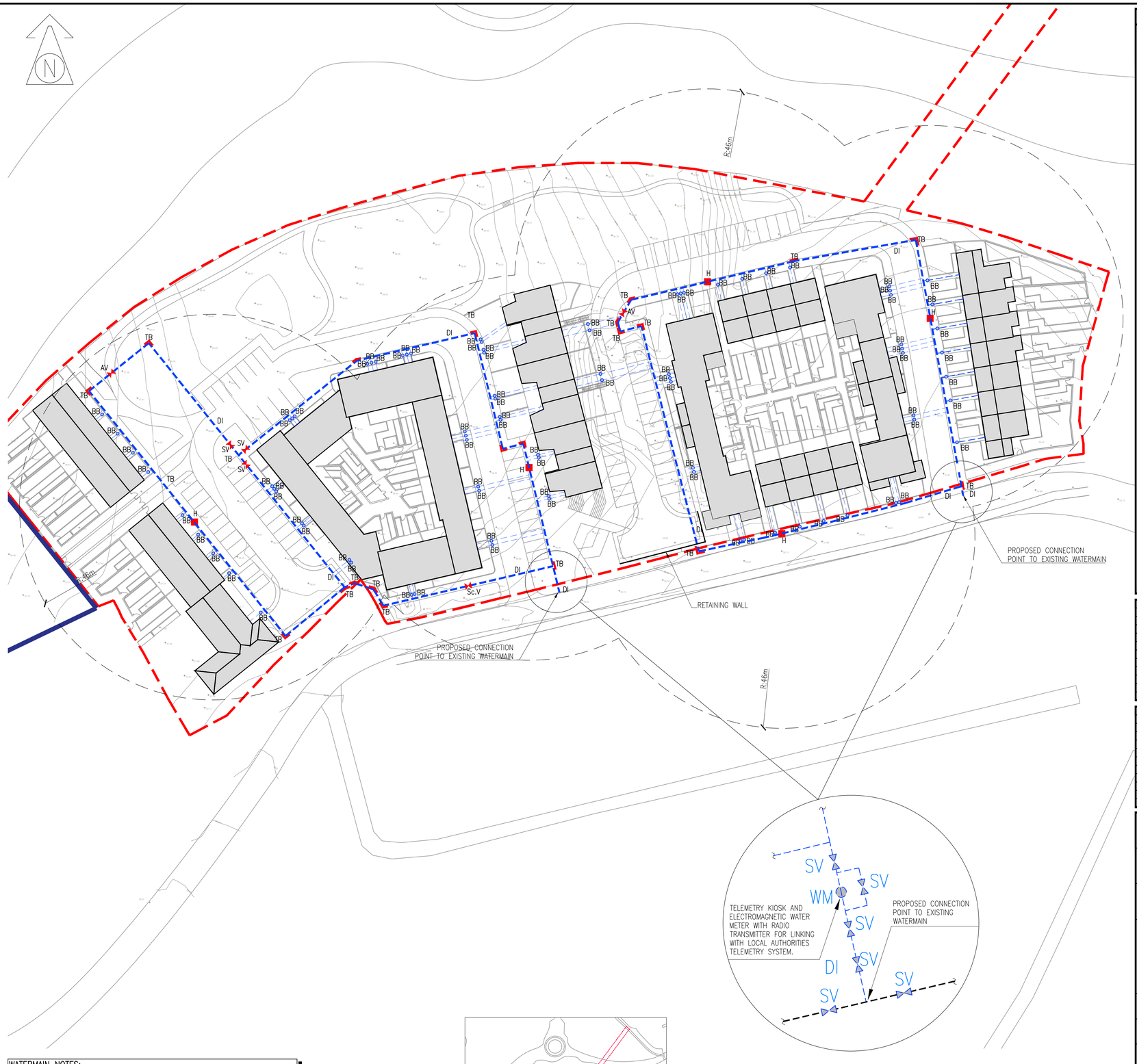
4. ALL FIRE HYDRANTS TO BE LOCATED IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS. 1997 & TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 2006 STATUTORY INSTRUMENT 497 OF 1997.

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.

NOTE
REFER TO M&E DRAWINGS FOR SERVICE CONNECTION FROM BOUNDARY BOX TO UNITS

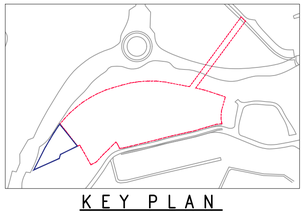
LEGEND:

- PROPOSED 100MMø HDPE TYPE PE100 WATERMAIN
- EXISTING WATERMAINS
- SV — SLUICE VALVE
- ScV — SCOUR VALVE
- AV — AIR VALVE
- TB — THRUST BLOCK
- BB — DENOTES 25mm ø HDPE PIPE TO IRISH WATER APPROVED BOUNDARY BOX
- M — BULK WATER METER
- H — PROPOSED HYDRANT



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 , SEPTEMBER 2017 VERSION 1. 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.



KEY PLAN

N.T.S. SCALE

NOTE: ALL WATER INFRASTRUCTURE DETAILS TO BE IN ACCORDANCE WITH IRISH WATER DOCUMENT NUMBER: IW-CDS-5020-01

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.
PL1	28.11.18	PLANNING ISSUE	MD	MC	NP
PL2	08.02.19	PLANNING ISSUE	EH	MC	NP

Client: KILKENNY COUNTY COUNCIL

Job Description: CROKERS HILL HOUSING DEVELOPMENT

Status: PLANNING ISSUE

Drawing Title: WATERMAIN LAYOUT

Project No:	Drawing Ref:	Rev:
18KK003	C-002	PL2

Date:	Scale:	
01.11.18	A3 - 1/1000; A1 - 1/500	
Drawn By: M.DI DATO	Checked By: N.PATTERSON	Approved By: N.PATTERSON

Hayes Higgins Partnership
Gas House Lane, Kilkenny.
Gas House Lane, Kilkenny (056) 7764710 (056) 7723223 info@hayeshigginskk.com
58 Fitzwilliam Square, Dublin 2. (01) 6612321 (01) 6625804 admin@hayeshiggins.ie

CADFILE: 18KK003-C-002-003 Watermain Levels Layout.dwg

© HAYES HIGGINS PARTNERSHIP