WATERMAIN NOTES:

ALL WATERMAIN INFRASTRUCTURE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE UISCE EIREANN (UE) CODE OF PRACTICE (COP) FOR WATER UE-CDS-5020-03 AND STANDARD DETAILS UE-CDS-5020-01.

UE SOP AND STANDARD DETAILS CAN BE FOUND AT https://www.water.ie/connections/developer-services/

WATERMAIN TO BE CONSTRUCTED IN LINE WITH REQUIREMENTS OF UISCE EIREANN CONNECTION AGREEMENT.

CONNECTION TO EXISTING WATERMAIN TO COMPLY WITH STANDARD DETAIL UE-STD-W-05 AND THE REQUIREMENTS OF UE COP UE-CDS-5020-01.

WATERMAIN MATERIAL SHALL COMPLY WITH SECTIONS 3.3 AND 3.9 OF UE COP FOR WATER INFRASTRUCTURE UE-CDS-5020-03.

THREE-WAY SLUICE VALVE ARRANGEMENT TO BE CONSTRUCTED WITH DUCTILE IRON AND IN ACCORDANCE WITH IRISH WATERUE

INTERCONNECTING PIPEWORK BETWEEN VALVES AND HYDRANTS TO BE DUCTILE IRONFITTINGS AS PER RELEVANT UE STANDARD DETAILS.

WATERMAIN LOOPS TO INCLUDE A MINIMUM OF FOUR HOUSE CONNECTIONS AND A FIRE HYDRANT.

WATERMAINS TO BE A MINIMUM 750mm FROM KERBS AND 300mm FROM ANY OTHER SERVICE. TYPICAL SERVICE LAYOUT DISTANCES (HORIZONTALLY AND VERTICALLY) AS PER STANDARD DETAIL STD-W-11.

THRUST BLOCKS TO WATERMAINS AS PER UE STANDARD DETAIL DRAWING STD-W-28.

LOCATION OF VALVES, MANHOLES, HYDRANTS ARE SHOWN INDICATIVE ONLY ON THIS DRAWING. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE POSITIONS ON THE GROUND ARE IN ACCORDANCE WITH IW-CDS-5020-03.

REFER TO SECTION 3.26 OF UE COP UE-CDS-5020-03 AND IW STANDARD DRAWINGS STD-W-12, STD-W-12A, STD-WW-06, STD-WW-06A & FOR PLANTING RESTRICTIONS NEAR WATER INFRASTRUCTURE. ROOT PROTECTION TO BE ReRoot 2000 OR SIMILAR.

ALL WATERMAINS TO BE A MINIMUM OF 3.0m FROM SMALL SIZED AMENITY TRESS AND 6.0m FROM DECIDUOUS TREES (STD-W-12A).

ALL WATERMAINS TO BE KEPT 1.5m TO 2.0m FROM TREES WITH ROOT PROTECTION. TREES TO BE NO GREATER THAN MEDIUM SIZE E.G. ASH, HOLLY, WHITEBEAM OR SIMILAR.

VALVE AND CHAMBER COVERS LOCATED IN GRASSED AREAS TO HAVE 200mm ALL ROUND CONCRETE PLINTH AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE, BEDDED IN CLAUSE 804 MATERIAL. THE PLINTH SHALL BE COMPLETE WITH BULL-NOSED FINISH TO ITS PERIMETER AND BE PROVIDED WITH A MILD STEEL REINFORCEMENT LINK.

SCOUR VALVES TO BE LOCATED AT LOW POINTS. A NON-RETURN VALVE IS REQUIRED AT SCOUR VALVE LOCATIONS TO PREVENT BACKFLOW TO THE WATER SUPPLY NETWORK SYSTEM AND CONNECTION TO BE AGREED WITH THE LOCAL AUTHORITY. REFER TO SECTION 3.16.4 AND 3.21 OF THE UE COP FOR WATER INFRASTRUCTURE.

SCOUR VALVES TO HAVE SCOUR CHAMBERS AS PER IRISH WATER STANDARD DRAWING STD-W-30. IF A CONNECTION TO A SW MANHOLE IS NOT FEASIBLE, A CONNECTION TO A WASHOUT HYDRANT IN ACCORDANCE WITH STANDARD DETAILS STD-W-30A IS REQUIRED.

SCOUR VALVE ON AN OFFLINE PIPES TO BE AGREED BY LOCAL AUTHORITY. REFER TO SECTIONS 3.16.4 AND 3.21 OF UE COP.

VALVES, CHAMBERS AND HYDRANTS TO COMPLY WITH SECTION 3.18 OF THE UE COP FOR WATER INFRASTRUCTURE. WHERE PROVIDED IN GRASSED AREAS SHALL BE SURROUNDED BY CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL. THE PLINTH SHALL INCORPORATE MILD STEEL REINFORCEMENT LINKS ALL AROUND AND SHALL HAVE BULL NOSE FINISH AROUND ITS EXTERNAL PERIMETER.

FOR WATERMAIN CONNECTIONS TO DWELLINGS, REFER TO M&E DRAWING DETAILING "POP-UP" LOCATIONS. ALL WATERMAINS CONNECTIONS TO BE INSTALLED AS PER IRISH WATER COP IW-CDS-5030-03.

WATERMAIN HOUSE CONNECTIONS TO COMPLY WITH SECTIONS 3.7 & 3.15 OF THE UE COP AND STANDARD DETAIL DRAWING STD-W-03 AND STD-W-26.

BOUNDARY BOX AND INDIVIDUAL HOUSE WATERMAIN CONNECTION LOCATIONS SHOWN INDICATIVELY. FOR POP-UP LOCATIONS REFER TO M&E DRAWINGS.

PIPE MATERIALS SHALL BE HDPE OR MDPE IN ACCORDANCE WITH UE COP.

CONTRACTOR TO ALLOW FOR COMPLETING 2 No. HYDRANT FLOW TESTS AND 24 HOUR PRESSURE LOGGING. 1 No. TEST TO BE COMPLETED ON NEW HYDRANT WITHIN THE SITE AND A SECOND ON THE CLOSEST EXISTING HYDRANT LOCATED ON NORTH STREET.

THE INFORMATION ON THIS DRAWING IS TO THE ORDNANCE SURVEY IRELAND ITM COORDINATE SYSTEM

WATER MAINS LEGEND:

- EXISTING WATER SUPPLY
- PROPOSED 100mm HDPE SDR17 WATERMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED SLUICE VALVE
- PROPOSED BULK METER
- PROPOSED AIR VALVE
- PROPOSED Ø25mm PE80 SDR 17 HOUSE CONNECTION AND WATER METER
- PROPOSED 3-WAY SLUICE VALVE ARRANGEMENT (DUCTILE IRON PIPEWORK BETWEEN VALVES) AS PER IW-CDS-5020-01
- PROPOSED SCOUR VALVE & WASHOUT CHAMBER
- PROPOSED BELOW GROUND STATIC WATER STORAGE TANK
- PROPOSED THRUST BLOCK

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
3. ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES, ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

Rev	Date	Description	By	Chkd.
P0	26.09.2024	Issue for Planning	A.O	S.B

Client: Galway County Council

Project: Housing Development at Cosmona, Loughrea, Co. Galway

Title: Proposed Watermain Layout

Scale @ A1: 1:500

Prepared by: A.O | Checked by: S.B | Date: 10.06.2024

Drawing Status: Planning

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Drawing No.: 11942-2000

Revision: P0

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