

NOTES:

ALL WORKS WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE UISCE EIREANN (UE) CODE OF PRACTICE (COP) FOR WASTEWATER INFRASTRUCTURE UE-CDS-5030-03 AND IRISH WATER STANDARD DETAILS UE-CDS-5030-01.

THE CONTRACTOR SHALL ENSURE UISCE EIREANN CONNECTION DETAILS ARE ADHERED TO. REFER TO STANDARD DETAILS AVAILABLE FROM <https://www.water.ie/connections/developer-services/>

INDIVIDUAL WASTEWATER SERVICE CONNECTIONS TO EACH BLOCK ARE SHOWN INDICATIVELY. FINAL DESIGN WILL BE CONFIRMED WITH M&E DESIGNER AND SHALL BE AS PER STANDARD DETAILS STD-WW-02, STD-WW-03, STD-WW-04 AND STD-WW-05 & 05A.

AS PER THE BUILDING REGULATIONS TECHNICAL GUIDANCE DOCUMENT - PART H AND UISCE EIREANN CODE OF PRACTICE FOR PLANTING RESTRICTIONS TO WATER AND WASTE WATER INFRASTRUCTURE, IF REQUIRED, ROOT PROTECTION TO BE ReRoot 2000 OR SIMILAR.

INSPECTION CHAMBERS SHALL BE IN COMPLIANCE WITH STANDARD DETAILS STD-WW-03 AND STD-WW-13 AND WILL BE LOCATED WITHIN 1.0m OF EACH PROPERTY BOUNDARY.

GRAVITY SEWER PIPE MATERIALS USED SHALL BE IN COMPLIANCE WITH SECTION 3.13 OF THE CODE OF PRACTICE. UNPLASTICISED PVC PIPES AND FITTINGS SHALL BE OF STIFFNESS CLASS OF 8kN/m².

PIPE MATERIALS WILL BE UNPLASTICISED PVC (WAVSPEC SN8 OR SIMILAR) FOR THE MAIN SEWERS AS PER SECTION 3.13.3 OF THE CODE OF PRACTICE.

MANHOLES ARE REQUIRED TO CONFORM TO STANDARD DETAILS STD-WW-09, STD-WW-10, STD-WW-11 AND/OR STD-WW-12 AS APPROPRIATE.

SEPARATION DISTANCES OF FOUL SEWERS TO STRUCTURES AND OTHER UTILITIES WILL COMPLY WITH SECTION 3.5 OF THE CODE OF PRACTICE.

REFER TO SECTIONS 3.5.16, 3.5.17 AND 3.5.18 OF THE WASTEWATER CODE OF PRACTICE FOR UNAVOIDABLE SERVICE CROSSINGS.

REFER TO STANDARD DETAILS STD-WW-06, STD-WW-06A AND STD-W-12A AND SECTION 3.21 OF THE CODE OF PRACTICE FOR PLANTING RESTRICTIONS TO WATER AND WASTE WATER INFRASTRUCTURE. IF REQUIRED, ROOT PROTECTION TO BE ReRoot 2000 OR SIMILAR.

MANHOLE COVERS SHALL BE SET IN POSITION FLUSH WITH FINISHED GROUND SURFACE, WHETHER ROAD, PAVEMENT OR OPEN GROUND.

REFER TO SECTION 3.5.14 OF THE IW COP FOR GUIDANCE ON STAGGERING OF FOUL AND STORM MANHOLES.

ALL STORM SEWER AND FOUL SEWER PIPES TO BE LAID WITH MINIMUM 1200mm COVER TO CROWN OF PIPES IN ROADS AND MINIMUM 900mm COVER IN OPEN SPACES & FOOTPATHS NOT ADJACENT TO CARRIAGEWAYS. WHERE IT IS NOT POSSIBLE TO ACHIEVE THESE MINIMUM COVER DEPTHS, PIPES SHALL BE BEDDED AND ENCASED IN CONCRETE 150mm THICK.

AS PER SECTION 3.5.16 OF THE CODE OF PRACTICE, EXTERNAL FACE OF PROPOSED MANHOLE TO BE MINIMUM 0.5m FROM KERB LINE AND EXTERNAL FACE OF SEWERS TO BE A MINIMUM OF 1.0m FROM KERB LINE.

NOTES:

INVERT LEVEL OF EXISTING FOUL SEWER AND MANHOLES ONSITE, PARTICULARLY AT CONNECTION POINTS, SHALL BE CHECKED PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICES DISCHARGE FROM EACH HOUSE AS HIGH AS POSSIBLE ACCOUNTING FOR THE INVERT LEVEL OF THE MAIN DRAINAGE LINE TO WHICH IT CONNECTS.

PRIOR TO POURING FOUNDATIONS THE CONTRACTOR SHALL CHECK ALL UNDER SLAB DRAINAGE HAS ADEQUATE LEVEL AND GRADIENT TO CONNECT TO MAIN DRAINAGE.

IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL UNDER SLAB DRAINAGE IS INSTALLED IN ACCORDANCE WITH THIS DESIGN AND THAT ANY VARIATIONS FROM THE DESIGN COMPLY WITH BUILDING REGULATIONS TECHNICAL GUIDANCE DOCUMENT PART H AND IRISH WATER CODE OF PRACTICE FOR WASTEWATER IW-CDS-5030.

ANY VARIATION TO THE DESIGN TO BE RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE DESIGN TEAM IN THE AS-BUILT DRAWINGS FOR THE SAFETY FILE.

THE CONTRACTOR SHALL RAISE ANY ISSUES WITH THE ENGINEER IN ADVANCE OF UNDERTAKING WORKS.

CHAMBER SIZING IN RELATION TO INVERT DEPTH:

- DEPTH TO INVERT < 600mm - STANDARD 300mm x 300mm AJ REQUIRED
- DEPTH TO INVERT > 600mm, < 1000mm - 450mm x 450mm AJ REQUIRED
- DEPTH TO INVERT > 1000mm, < 1500mm - Ø1000mm MANHOLE REQUIRED
- DEPTH TO INVERT > 1500mm - Ø1200mm MANHOLE REQUIRED

GENERAL DRAINAGE SERVICE CONNECTION NOTES:

- DRAINS SHOULD BE LAID TO EVEN GRADIENTS AND ANY CHANGE OF GRADIENT SHOULD BE COMBINED WITH AN ACCESS POINT. CONNECTIONS OF DRAINS TO OTHER DRAINS SHOULD BE MADE OBLIQUELY AND IN THE DIRECTION OF FLOW.
- ACCESS POINTS SHOULD BE PROVIDED ONLY IF BLOCKAGES CANNOT BE CLEARED WITHOUT THEM.
- PIPES SHOULD BE LAID IN STRAIGHT LINES WHERE PRACTICABLE. ANY BENDS SHOULD BE LIMITED TO POSITIONS IN OR CLOSE TO INSPECTION CHAMBERS OR MANHOLES AND TO THE FOOT OF DISCHARGE AND VENTILATION STACKS. BENDS SHOULD HAVE A LARGE RADIUS AS PRACTICABLE.
- ALL DRAINAGE PIPE MATERIALS, COVER AND BEDDING ARE TO COMPLY WITH BUILDING REGULATIONS TGD PART H:
 - PIPE MATERIALS SHALL BE AS DEFINED IN TABLE 7.
 - BEDDING FOR RIGID PIPES SHALL BE AS PER DIAGRAM 8 AND BEDDING FOR FLEXIBLE PIPES SHALL BE AS PER DIAGRAM 9.
 - GRANULAR BEDDING MATERIAL FOR PIPES TO CONFORM TO IS EN 1610 ANNEX B TABLE 15. MATERIAL TO BE SINGLE SIZED OR GRADED FROM 5-10mm FOR 100mm PIPES, 5-14mm FOR 150mm PIPES AND 5-20mm FOR 150-600mm PIPES.
- THE MINIMUM DEPTH OF COVER TO CROWN LEVEL OF FLEXIBLE PIPES SHALL BE 1200mm UNDER ROADS, 900mm UNDER DRIVEWAYS/PARKING AREAS AND 600mm IN GARDENS.
- FOR FLEXIBLE PIPES WHERE IT IS NOT POSSIBLE TO ACHIEVE 600mm MINIMUM COVER DEPTH UNDER GARDENS, CONCRETE PAVING SLABS SHALL BE LAID AS BRIDGING OVER THE PIPE WITH AT LEAST 75mm OF GRANULAR MATERIAL BETWEEN THE CROWN OF THE PIPE AND THE UNDERSIDE OF THE PAVING SLABS.
- FOR FLEXIBLE PIPES WHERE IT IS NOT POSSIBLE TO ACHIEVE 1200mm MINIMUM COVER DEPTH UNDER A ROAD OR 900mm UNDER A DRIVEWAY/PARKING AREA, REINFORCED CONCRETE BRIDGING OR REINFORCED CONCRETE SURROUND SHOULD BE USED INSTEAD OF PAVING SLABS.
- FOR RIGID PIPES WHERE IT IS NOT POSSIBLE TO MINIMUM COVER AS OUTLINED IN TABLE 8 OF BUILDING REGULATIONS TECHNICAL GUIDANCE DOCUMENT PART H, THE PIPES SHOULD BE PROTECTED BY CONCRETE ENCASEMENT NOT LESS THAN 100mm THICK AND HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIBLE MATERIAL AT EACH SOCKET OR JOINT FACE.
- A DRAIN MAY RUN UNDER A BUILDING WHERE A MINIMUM OF 100mm OF GRANULAR MATERIAL OR OTHER FLEXIBLE FILLING IS PROVIDED AROUND THE PIPE.
- 100mm Ø FOUL DRAINS SHOULD BE LAID AT A MIN OF 1:40 WHERE NO WC IS CONNECTED AND AT 1:60 WHERE AT LEAST 1 WC IS CONNECTED.
- 75mm Ø AND 100mm Ø SURFACE WATER DRAINS SHOULD BE LAID AT NOT LESS THAN 1:100 GRADIENT.
- WHERE THE CROWN OF A DRAIN PIPE IS WITHIN 300mm OF THE UNDERSIDE OF A SLAB OR SUSPENDED SLAB, CONCRETE ENCASEMENT SHOULD BE USED INTEGRAL TO THE SLAB.
- FOR DRAINS EXITING THROUGH RISING WALLS OR FOUNDATIONS REFER TO SECTION 1.7 AND DIAGRAM 12 OF THE BUILDING REGULATIONS TECHNICAL GUIDANCE DOCUMENT PART H:
 - 50mm CLEARANCE SHALL BE FORMED AROUND THE CIRCUMFERENCE OF THE PIPE SHOULD BE PROVIDED. THE VOID SHOULD BE FILLED WITH COMPRESSIBLE SEALANT TO PREVENT THE INGRESS OF GAS AND THE OPENING SHOULD BE MASKED WITH RIGID SHEET MATERIAL TO PREVENT THE INGRESS OF VERMIN OR FILL OR;
 - A LENGTH OF PIPE SHOULD BE BUILT IN WITH ITS JOINTS AS CLOSE AS POSSIBLE TO THE WALL FACES (WITHIN 150mm) AND CONNECTED ON EACH SIDE TO ROCKER PIPES WITH A LENGTH OF AT MOST 600mm AND FLEXIBLE JOINTS.

THE INFORMATION ON THIS DRAWING IS TO THE TAILTE ÉIREANN - SURVEYING ITM COORDINATE SYSTEM

LEGEND:

- SITE BOUNDARY
- PROPOSED FOUL SEWER AND MANHOLE F10 225Ø 1/79 DETAILS
- PROPOSED HOUSE SEWER CONNECTION & INSPECTION CHAMBER
- EXISTING FOUL SEWER AND MANHOLE Ex.F10 225Ø 1/79

NOTES:

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

P01	17.08.2026	Issue for Planning	GC	SB
Rev	Date	Description	By	Chkd.

Client: Galway County Council

Project: Housing Development at Cosmona, Loughrea, Co. Galway Phase 2

Title: Proposed Foul Sewer Layout

Scale @ A1: 1:250

Prepared by: GC Checked by: SB Date: 17.08.2026

Drawing Status: Planning

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Drawing No.: 11942-2105 Revision: P01

MH No.	MANHOLE DIMENSION (mm)	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)
EX.F10	1200	80.595	78.343	2.102
F26	1200	80.694	78.410	1.969
F28	1200	81.091	78.563	2.313
F27	1200	81.180	78.594	2.361
F29	1200	80.908	78.802	1.881
F29	1200	81.070	79.473	1.372
F30	1200	81.234	78.603	2.406