

| BY | DRAWING No. & REFERENCE | DATE |
|---------|----------------------------------|------------|
| SURVEY | 23006_Lambs_Cross_20_1M_Rev 02 | 05.06.2024 |
| ARCH | SHB5-LDR-DR-P3-1002 | 22.10.2024 |
| LS ARCH | SHB5-LDR-DR-MAL-C-P1-0001_Rev 02 | 04.07.2024 |

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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

DRAINAGE NOTES

- ALL FOUL WORKS TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE DOCUMENT IW-CDS-5030-03 AND IRISH WATER STANDARD DETAILS IW-CDS-5030-01.
- ALL FOUL WATER DRAINAGE RUNS ARE TO A GRADE OF 1:150 AND PIPE SIZE OF 225 ϕ UNLESS OTHERWISE STATED.
- ALL SURFACE WATER DRAINAGE RUNS ARE TO A GRADE OF 1:200 AND PIPE SIZE OF 225 ϕ UNLESS OTHERWISE STATED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT JUNCTION BOXES, CHAMBERS, MANHOLES, GULLIES TO ENSURE NO CLASHES WITH SERVICE DUCTS AND PIPES.
- ALL LEVELS ARE IN METRES ABOVE MALIN HEAD DATUM UNLESS OTHERWISE NOTED.
- ALL COVER LEVELS ARE INDICATIVE ONLY.
- ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTE WATER INFRASTRUCTURE AND STANDARD DETAILS.
- MANHOLES, MANHOLES COVERS AND ROAD GULLY GRATINGS TO STANDARD SPECIFICATION.
- ALL PIPE DIAMETERS ARE NOMINAL.
- THE CONTRACTOR MUST SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL EXISTING SERVICES.
- ALL FOUL PIPEWORK TO BE UPVC IN ACCORDANCE WITH SECTION 3.13 AND 3.14 OF IRISH WATER CODE OF PRACTICE FOR WASTE WATER INFRASTRUCTURE.
- ALL ROAD GULLY DRAINS ARE 150mm ϕ .
- 600mm MAX LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWERS WHERE:
 - A PIPE ENTERS A MANHOLE OR PUMPING STATION
 - A PIPE LEAVES A MANHOLE
 - A PIPE ENTERS CONCRETE ENCASMENT
 - A PIPE LEAVES CONCRETE ENCASMENT
 - ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER
- ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING AND TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPIGOT AT THE CUT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
- ALL ROCKER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED MANHOLE, PUMPING STATION, CONCRETE ENCASED SECTION OR VALVE CHAMBER.
- ALL MANHOLE COVERS LOCATED IN TRAFFICKED AREA ARE TO BE SKID RESISTANT.
- ALL GULLY GRATINGS ARE TO BE MIN. CLASS D400 TO IS EN 124 AND ARE TO BE LOOKABLE.
- WHERE COVER TO PIPE IS LESS THAN 900mm UNDER GRASSED AREAS OR LESS THAN 1200mm UNDER ROADWAYS THE PIPE SHOULD BE SURROUNDED IN CONCRETE.
- EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS LOCATED AT LEAST 0.5m FROM KERB LINES. EXTERNAL FACE OF SEWERS TO BE LOCATED AT LEAST 1m FROM KERB LINES.
- EXTERNAL FACE OF SEWERS TO BE A MINIMUM OF 3m FROM EXTERNAL FACE OF DEVELOPMENT OR EQUIVALENT DISTANCE TO THE DEPTH OF SEWER BELOW THE FOUNDATION (WHICHEVER IS GREATER).
- NOTE: ALL ATTENUATION ZONES TO BE SEALED TO AVOID ANY POTENTIAL NEGATIVE EFFECTS ON THE SURROUNDING GROUND WATER.
- EXTERNAL FACE OF FOUL MANHOLE CHAMBERS TO BE LOCATED AT LEAST 0.5m FROM KERBLINES. EXTERNAL FACE OF FOUL SEWER PIPEWORK TO BE LOCATED AT LEAST 1.0m FROM KERBLINES.
- ALL WASTEWATER INSPECTION CHAMBERS SHOULD BE IN COMPLIANCE WITH THE IW CODE OF PRACTICE AND STD-WW-02 & 03.
- SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS, TREES, ETC. TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-WW-05, STD-WW-06, STD-WW-06A.

DRAINAGE LEGEND

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| | PROPOSED FOUL DRAINAGE LINE |
| | PROPOSED FOUL MANHOLE |
| | PROPOSED FOUL ARMSTRONG JUNCTION |
| | EXISTING FOUL DRAINAGE LINE |
| | EXISTING FOUL MANHOLE |
| | EXISTING FOUL ARMSTRONG JUNCTION |
| | PROPOSED SURFACE DRAINAGE LINE |
| | PROPOSED SURFACE MANHOLE |
| | PROPOSED SURFACE ARMSTRONG JUNCTION |
| | PROPOSED SURFACE ROAD GULLY |
| | EXISTING SURFACE DRAINAGE LINE |
| | EXISTING SURFACE MANHOLE |
| | EXISTING SURFACE ARMSTRONG JUNCTION |
| | EXISTING SURFACE ROAD GULLY |
| | PERMEABLE PAWING |
| | SWALE AREA |
| | GRATED MANHOLE |
| | RAIN GARDEN AREA |
| | PERMEABLE PAWING UNDERDRAIN 150 ϕ |
| | SWALE/ RAIN GARDEN UNDERDRAIN 150 ϕ |
| | DROPPED KERB AT 5m C/C |
| | INSPECTION CHAMBER |

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

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|------------|---|
| STD-WW-01 | WASTEWATER SERVICES CONNECTION MAINTENANCE RESPONSIBILITY |
| STD-WW-03 | DRAIN & SERVICE CONNECTION PIPEWORK |
| STD-WW-04 | TYPICAL SEWER/SERVICE PIPE CONNECTION |
| STD-WW-05 | TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES |
| STD-WW-05A | WASTEWATER SERVICE CONNECTION VERTICAL SEPARATION DISTANCES |
| STD-WW-06 | RESTRICTIONS ON WASTEWATER INFRASTRUCTURE WORKS ADJACENT TO TREES |
| STD-WW-06A | RESTRICTIONS ON NEW TREES / SHRUBS PLANTING ADJACENT TO SEWERS |
| STD-WW-07 | TRENCH BACKFILL AND BEDDING |
| STD-WW-08 | CONCRETE BED, HAUNCH AND SURROUND TO WASTEWATER PIPES |
| STD-WW-10 | PRE-CAST CONCRETE MANHOLE WITH CAST IN-SITU BASE |
| STD-WW-10A | PRE-CAST CONCRETE MANHOLE WITH PRECAST BASE |
| STD-WW-12 | BACKDROP AND CASCADE MANHOLES |
| STD-WW-36 | MARKER POST/PLATES |

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| 4 | ISSUED FOR PLANNING | 25.10.24 | KA | KA |
| 3 | REVISED AS PER ARCHITECT AND LANDSCAPE ARCHITECT'S LATEST LAYOUTS AND COMMENTS | 12.07.24 | KA | FM |
| 2 | REVISED AS PER ARCHITECT AND LANDSCAPE ARCHITECT'S LATEST LAYOUTS | 17.06.24 | KA | FM |
| 1 | ISSUED FOR INFORMATION | 24.01.24 | KA | PB |
| 0 | ISSUED FOR INFORMATION | 11.01.24 | KA | PB |
| REV | DESCRIPTION | DATE | BY | CHK |

STATUS: **P3 - PLANNING**

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CLIENT: DLRC/NDA

JOB NAME: PPP SHB 4&5 - LAMBS CROSS

DRG. NAME: FOUL SEWER AND SURFACE WATER DRAINAGE LAYOUT

| JOB REF | SHEET | SCALE | DATE | BY | ENG | APP | REV. |
|---------|-------|-------|----------|----|-----|-----|------|
| 23006 | A1 | 1:250 | SEPT2023 | KD | PB | PB | 4 |

DRG. NO.: SHB5-LDR-DR-MOR-CS-P3-130

