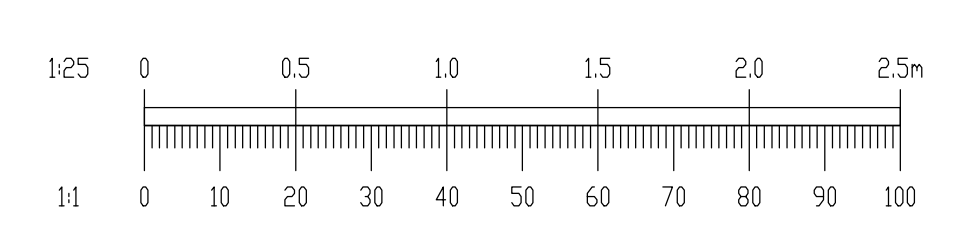


| INLET DIA. (mm) | DROP DIA. (mm) |
|-----------------|----------------|
| 225 | 300 |
| 300 | 375 |
| 375 | 375 |
| 450 | 450 |
| 525 | 450 |
| 600 | 450 |
| 750 | 600 |
| 900 | 600 |

- NOTES:
- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
 - TYPE A GRANULAR FILL SHALL CONSIST OF WASHED PFA GRAVEL. ALL MATERIAL SHALL PASS A 19mm B.S. SIEVE TEST AND SHALL BE RETAINED BY A 4.75mm B.S. SIEVE TEST.
 - SELECTED FILL SHALL BE FREE FROM STONES GREATER THAN 25mm IN SIZE, BUILDERS RUBBLE, VEGETABLE MATTER AND LUMPS OF CLAY GREATER THAN 75mm IN SIZE AND SHALL BE COMPACTED IN 150mm LAYERS.
 - IN OPEN SPACES BACKFILL SHALL CONSIST OF SUITABLE SELECTED EXCAVATED MATERIAL.
 - UNDER PAVED AREAS BACKFILL SHALL CONSIST OF CLAUSE 858 GENERAL BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
 - CONCRETE BED AND SURROUND SHALL BE USED ON ALL PIPES WHERE COVER TO THE SOFFIT OF THE PIPE IS LESS THAN 1.2m IN ROADS, FOOTPATHS AND GRASS MARGINS AND 0.9m IN OPEN SPACES AND FIELDS.
 - ALL CONCRETE FOR PIPE BEDDING, HAUNCHING AND SURROUNDS SHALL BE GRADE CL 20N/20mm.
 - ALL MANHOLES SHALL BE WATER TIGHT TO THE SATISFACTION OF THE ENGINEER.
 - FORMWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL BE CLASS F2.
 - CLASS U2 FINISH TO THE TOP OF SLABS. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.
 - 200mm THICK CL 30N/20mm MASS CONCRETE FOUNDATIONS. 225 THICK PRECAST R.C. ROOF SLAB IN CL 30N/20mm CONCRETE. COVER TO STEEL TO BE 40mm.
 - TOE HOLES TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 450mm DIAMETER FOR ACCESS TO INVERT. SAFETY CHAIN ON SEWERS 600mm DIA. OR GREATER MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE (M/H) NON CALIBRATED CHAIN, TYPE 1, COMPLYING WITH BS4942 PART 2.
 - WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.5m, LADDERS SHALL BE USED INSTEAD OF RUNGS. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF BS4211 EXCEPT THAT STRINGERS SHOULD NOT BE LESS THAN 65 X 20mm IN SECTION AND RUNGS 25mm IN DIAMETER.
 - LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 3.0m STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE REPAIRS.
 - ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAIN, ETC. SHALL BE HOT DIPPED GALVANISED TO BS729.
 - ALL DRAINAGE WORKS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH SOUTH DUBLIN COUNTY COUNCIL REQUIREMENTS FOR TAKING IN CHARGE AND GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 - ALL DRAINAGE WORKS IN PUBLIC AREAS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE COUNCILS REQUIREMENTS FOR TAKING IN CHARGE. SURFACE WATER DRAINAGE DETAILS ONLY. FOR FOUL DRAINAGE REFER TO IRISH WATER STANDARD DETAILS FROM: www.water.ie/connections/develop-projects/



| REV. | DATE | AMENDMENT | DRN | APPD |
|------|----------|---------------------------|-----|------|
| A | 02/10/20 | SHD APPLICATION ISSUE | MK | IS |
| ~ | 16/03/20 | SHD PRE-APPLICATION ISSUE | MK | IS |

STATUS **FOR SHD APPLICATION**

Waterman Moylan
Engineering Consultants

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CLIENT **CASTELTHORN CONSTRUCTION ULC**

ARCHITECT **O'MAHONY PIKE ARCHITECTS**

PROJECT **PROPOSED PHASE 2 RESIDENTIAL DEVELOPMENT AT DUNSHAUGHLIN, CO. MEATH**

| DRAWN | DESIGNED | APPROVED | DATE |
|-------|----------|----------|------------|
| MK | JU | IS | MARCH 2020 |

| SCALE | JOB NO. | DRG. NO. | REVISION |
|----------|---------|----------|----------|
| 1:25 ØA1 | 12-081A | P230 | A |

| UNIT DIAMETER | 'A' (mm) | 'B' (mm) | 'C' (mm) | 'D' (mm) | 'E' (mm) | DESIGN FLOW (L/s) | CAPACITY (L/s) | INLET/OUTPUT PIPE DIAMETER (mm) |
|---------------|----------|----------|----------|----------|----------|-------------------|----------------|---------------------------------|
| 1000 UNIT | 1864 | 2615 | 600 | 600 | 1200 | 15 | 24 | 225 |
| 1200 UNIT | 1864 | 2615 | 600 | 600 | 1430 | 21 | 35 | 300 |
| 1470 UNIT | 3114 | 3750 | 600 | 750 | 2220 | 32 | 53 | 375 |
| 1800 UNIT | 3114 | 3750 | 600 | 750 | 2700 | 51 | 104 | 450 |
| 2000 UNIT | 2740 | 3500 | 600 | 750 | 2260 | 66 | 139 | 525 |
| 2550 UNIT | 3102 | 4250 | 600 | 900 | 2830 | 115 | 266 | 600 |
| 3000 UNIT | 3480 | 5000 | 600 | 900 | 3350 | 160 | 410 | 750 |