



**GENERAL SURFACE WATER DRAINAGE NOTES:**

- 250mm THICK MIN 20 MPA CONCRETE BASE WITH 4500 WEG REINFORCEMENT BAR
- PRECAST MANHOLE CHAMBER RINGS TO BE MANUFACTURED TO EN 124 AND EN 1240
- FOR SURFACE WATER MANHOLES USE HIGH-DENSITY BLOCKS COMPLYING WITH THE PARTICULAR REQUIREMENTS OF IS EN 771-3 OR NOTU 514 MIX CONCRETE
- BLOCK WORK SHALL BE BUILT TO A JOINTED JOINT SYSTEM (1) NORMAL TO CLAUSE 244 OF THE NIA SPECIFICATION FOR ROAD WORKS. JOINTS SHALL BE 600mm FROM THE FACE OF MANHOLE WALL
- JOINTS SHALL BE FLUSH FINISHED AS THE WORK PROGRESSES
- REINFORCING ARCHES SHALL BE 215 x 103 x 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'V'. REINFORCING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXCEEDING OVER FULL THICKNESS OF MANHOLE
- STANDARD RINGS AT 300 C/C VERTICALLY & GAUGED TO 60 14612000. NOTE: STEP RINGS ARE NOT ACCEPTABLE
- CLEAR OPENING IN ROOF SLAB FOR MANHOLES < 1.5m DIA. FROM 1200x750mm CLEAR OPENING FOR MANHOLES > 1.5m DIA. < 3.0m DIA. FROM 600x600mm CLEAR OPENING
- PRECAST MANHOLE CHAMBER RINGS SHALL BE 250mm THICK 20 MPA CONCRETE WITH 4500 WEG REINFORCEMENT BAR. RINGS SHALL BE 215 x 103 x 65 SOLID ENGINEERING BRICK CLASS 'A' OR 'V'. RINGS SHALL BE FLUSH FINISHED AS THE WORK PROGRESSES
- 1 TO 2 COURSES OF CLASS A SOLID ENGINEERING BRICK TO IS 91 SET IN DESIGNATION (1) NORMAL TO CLAUSE 244 OF THE NIA SPECIFICATION FOR ROAD WORKS
- MANHOLE COVER & FRAME SHALL BE MANUFACTURED TO EN 124 AND CERTIFIED TO THE LOAD CLASS SPECIFIED IN THE NIA SPECIFICATION FOR ROAD WORKS. THESE SHALL BE A MESH TYPE D400 GRADE DUCTILE IRON GRATING
- ROAD GULLIES IN BLACK MACADAM AREAS REQUIRE STANDARD D400 ROAD GULLY GRATING. ALL ROAD GULLY GRATING TO BE MIN. D400 RATING
- REFER TO DRAWING C-1204 FOR PERMEABLE PAVING DRAINAGE AND SLOPE DETAILS

**NOTE:**  
BEFORE DRAINAGE WORKS ARE COMMENCED THE CONTRACTOR IS TO ESTABLISH IF DRAINAGE WORKS ARE TO BE TAKEN IN CHARGE BY THE LOCAL AUTHORITY. IF THIS IS THE CASE THE CONTRACTOR IS TO GET APPROVAL FROM THE LOCAL AUTHORITY FOR DETAILS SHOWN ON THIS DRAWING BEFORE COMMENCING THE WORK.

**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS
- WASTE DRAINAGE DETAILS TO BE IN ACCORDANCE WITH IRISH WATER REQUIREMENTS UNLESS NOTED OTHERWISE
- CONNECTION OF BRANCHES TO THE MAIN LINE ARE TO BE BY MEANS OF 45° BRANCH CONNECTIONS. SADDLE CONNECTIONS ARE ONLY PERMITTED FOR CONNECTING GULLY TAILS TO BRANCHES/MANHOLES
- INTERNAL GROUND FLOOR FLOOR CONNECTIONS TO DRAIN SEPARATELY FROM THE UPPER STOREYS
- ALL BURIED PIPES UNDER GROUND FLOOR SLABS TO BE ENCASED IN CONCRETE
- CONTRACTOR TO NOTE REQUIREMENTS FOR PRECAST/PREFABRICATED GULLY GRATING ON THE GRANITE SHARED SURFACE CARROUSAGE AND BUFF MACADAM ROADS. THESE SHALL BE A MESH TYPE D400 GRADE DUCTILE IRON GRATING
- REFER TO DRAWING C-1204 FOR PERMEABLE PAVING DRAINAGE AND SLOPE DETAILS

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