

ROCKER PIPE LENGTH		
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)	
150 TO 600	600	
GREATER THAN 600 TO 750	1000	
GREATER THAN 750	1250	

BLOCKWORK MANHOLE NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE
- ALL DIMENSIONS ARE IN WILLIAMS IT AS MINING VILLES NOT LED O'T RETWISE.

 SOLID BLOCKWORK TO BE OF HIGH STRENGTH (20Nimm) TO IS EN 771.

 MAXIMUM DEPTH OF BLOCK WORK MANHOLE IS 1.20m (THE USE OF BLOCK WORK MANHOLE) WILL BE CONSIDERED BUT SUCH USE WILL REQUIRE DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW).
- REVIEW).

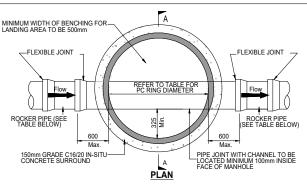
 WALLS TO BE FLUSH POINTED AND NOT PLASTERED INTERNALLY, INTERNAL LINING OF ENGINEERING BRICK TO IS EN 77:1-1 TO A HEIGHT OF 1m ABOVE BENCHING, ENGINEERING BRICK TO IS EN 77:1-1 TO A HEIGHT OF 1m ABOVE BENCHING, ENGINEERING BRICK TO BE BONDED TO BLOCKWORK USING ENGLISH GARDEN WALL BOND.

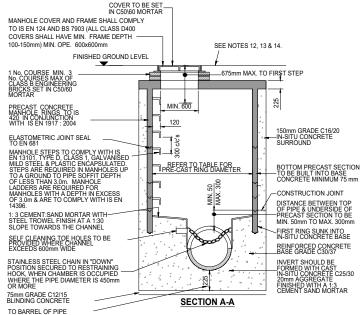
 STRUCTURAL DESIGN AND REINFORCEMENT DETAILS FOR ROOF AND BASE SLABS TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW MANHOLE ROOFS SHALL CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, C30:37, WITH A MINIMUM THICKNESS OF 225mm DESIGNED TO CARRY ALL LIVE AND DEAD LOADS, ALTERNATIVELY, APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO IRISH WATER REVIEW AND COMPLIANCE WITH BS 5911 PART 4: 2020.
- NEVIEW AND COMPLIANCE WITH BS 5911 PART 4: 2002.

 COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW FROM IRISH WATER.

 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.
- GREEN AREAS.
 ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED IN ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED OR BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY RISH WATER.
 ALL CONCRETE TO BE IN ACCORDANCE WITH 1 SEN 206: 2013.
 ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENT.
- NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
- 12. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF TOURDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS BY THE DEPT. OF TRANSPORT TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.

IRISH WATER DETAIL STD-WW-09 BLOCKWORK MANHOLE (<450mm DIA. & 1.2m DEEP MAX.)





MINIMUM MANHOLE DIAMETERS		
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	
LESS THAN 375	1200	
375 TO 450	1350	
500 TO 750	1500	

ROCKER PIPE LENGTH		
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)	
150 TO 600	600	
GREATER THAN 600 TO 750	1000	
GREATER THAN 750	1250	

PRECAST MANHOLE NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.
- REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.

 3. THICKET WANN-OLE BASES REDUIRED FOR SEVERS IN THAN THE SMOLARD MINIMUM SIZE IS GREATER

 4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO RISH WATER REVIEW AND COMPLYING WITH BS 5911-PART 4 2002.
- STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW.
- MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER DEVICEM
- DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO TRISH WATER REVIEW.

 MANUE ROOFS SHALL CONSIST OF A RE-INFORCED CONCRETE SLAB OF INSTITU CONCRETE C.3037 WITH A MINIMAN DECOMES OF A TERMINATION OF A RE-INFORCED PROPERTY OF THE STRUCTURE OF THE STRU
- COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER
- WATER

 9, 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH
 AROUND COVERS IN GREEN AREAS.
 ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE
 DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE
 SITE SHOULD ANTI-LOTATION MEASURES BE
 REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH
 WATER.
- 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206:
- 2013.

 12 ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL
 BE TO ROAD AUTHORITY'S REQUIREMENTS.

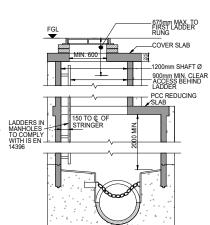
 13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO
 ROAD AUTHORITY REQUIREMENTS.

 14. EXISTING ROAD REINSTATEMENT TO COMPLY WITH
 CURRENT VERSION OF GUIDELINES FOR MANAGING
 YEARSPORT, TOURIGN & SPORT, OR TRANSPORT
 INFRASTRUCTURE IRELAND REQUIREMENTS.

 15. IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER
- IN-HASTRUCTURE IRELAND REQUIREMENTS.

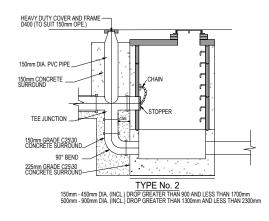
 15 IP DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER
 THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION
 FOR ACCESS SHALL BE PROVIDED.

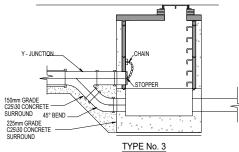
 16. PROPRIETARY WATERTIGHT PCC MANHOLE RING
 SYSTEMS WITH A WALL THICKNESS > 125mm, & A WATER
 TIGHT JOINT SEALING SYSTEM MAY BE USED WITHOUT
 CONCRETE SURROUND, SUBJECT TO THE GROUND
 WATER LEVEL AT THE MANHOLE BEING LOW, & SUBJECT
 TO REVIEW BY IRISH WATER.



MANHOLE DETAIL > 3m & < 6m **GROUND TO SOFFIT DEPTH**

HEAVY DUTY COVER AND FRAME D400 (TO SUIT 150mm OPE.) 150mm CONCRETE SURROUND 45° BEND 150mm GRADE C25\30 -CONCRETE SURROUN 225mm GRADE C25\30 -CONCRETE SURROUND TYPE No. 1 150mm - 450mm DIA. (INCL.) DROP GREATER THAN 1700mm 500mm - 900mm DIA. (INCL.) DROP GREATER THAN 2300mm



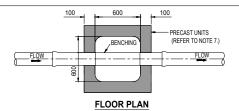


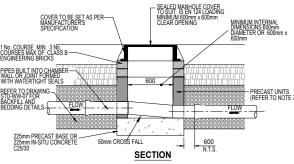
150mm - 450mm DIA. (INCL.) DROP GREATER THAN 600mm AND LESS THAN 900m 500mm - 900mm DIA. (INCL.) DROP GREATER THAN 600mm AND LESS THAN 1300mm

BACKDROP MANHOLE NOTES

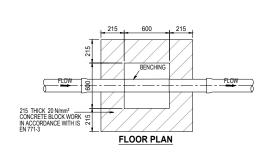
- ILL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE
- WALEN.
 ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
 MANHOLE DETAILS TO BE IN ACCORDANCE WITH STD-WW-09, 10 AND 11

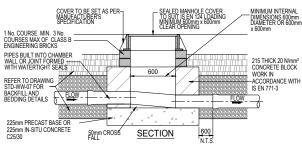
IRISH WATER DETAIL STD-WW-12 BACKDROP MANHOLE





INSPECTION CHAMBER (PRECAST CONCRETE CONSTRUCTION)





INSPECTION CHAMBER (BLOCK WORK CONSTRUCTION)

INSPECTION CHAMBER NOTES

SUBJECT TO REVIEW BY IRISH WATER.

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN I'M OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE OF THE CURTILAGE, IF PRACTICABLE, CONSULT WITH IRISH WATER ON ALTERNATIVE
- LOCATIONS.
 ANY PIPE AND ASSOCIATED ACCESS UPSTREAM OF THE POINT OF CONNECTION TO A PUBLIC SEWER IS A PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS. ACCESS POINTS SHOULD BE LOCATED SO THAT THEY ARE ACCESSIBLE AND APPARENT TO THE MAINTAINER AT ALL TIMES FOR USE. THEY
- SHOULD AVOID REAR GARDENS OR ENCLOSED LOCATIONS AND THEY SHOULD NEVER BE OVERLAIN WITH SURFACE DRESSING, TOPSOIL, ETC. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC
- CONDITIONS SUBJECT TO REVIEW BY IRISH WATER. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS
- IN GREEN AREAS. PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED,
- 8. CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150m COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL AS PER STD-WW-07.

IRISH WATER DETAIL STD-WW-13 CONCRETE AND BLOCKWORK INSPECTION

CHAMBER

GENERAL NOTES:-

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS & ENGINEERS DRAWINGS &
- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION, ALL DISCREPANCIES TO BE NOTIFIED, IN WRITING TO ENGINEERS & ARCHITECTS
- ALL DIMENSIONS ON DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- FOR DETAILS AND SETTING OUT OF RWP, SVP, WVP & ALL OPENINGS SEE THE RELEVANT ARCHITECTS
- FOR RADON BARRIER, D.P.C. & INSULATION DETAILS REFER TO ARCHITECTS DRAWINGS

NOTE:
DETAILS PROVIDED ARE IN ACCORDANCE WITH IRISH WATER
DOCUMENT "WASTEWATER INFRASTRUCTURE STANDARD
DETAILS, CONNECTIONS AND DEVELOPER SERVICES",
CONSTRUCTION REQUIREMENTS FOR SELF LAY
DEVELOPEMENTS DECEMBER 2017 (REVISION 03) DOCUMENT
NILMBER BUONS.5678.04 NUMBER IW-CDS-5030-01

NOTE:
THIS DOCUMENT IS LIABLE TO CHANGE, IT IS THE
CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE
DETAILS USED ON SITE ARE IN ACCORDANCE WITH THE MOST RECENT REVISION OF THE IRISH WATER STANDARDS.

> ALL SETTING OUT DIMENSIONS TO BE CHECKED AGAINST ARCHITECTS DRAWINGS ARCHITECTS DRAWINGS TO TAKE PRECEDENCE.

Issue Register



IRISH WATER DETAIL STD-WW-10 PRECAST CONCRETE MANHOLE TO A MAXIMUM DEPTH OF 6m