

PRE-CAST CONCRETE MANHOLE WITH CAST IN-SITU BASE NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917
- AND IS 420. 3. THICKER MANHOLE BASES REQUIRED FOR SEWERS IN EXCESS OF 3m DEEP WHERE
- THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE. 4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING
- CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING WITH ISEN 1719 AND IS 420. 5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE
- DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW.
- 6. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW.

7. MANHOLE ROOFS SHALL CONSIST OF A RE-INFORCED 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 IS EN 1917.
- 8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER.
- 9. 200mm ALL AROUND x 100mm DEEP, C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH MILD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.
- 10. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION 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 OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.
- 15. IF 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
- 17. THE INTERNAL MANHOLE DIAMETERS SHOWN IN THE TABLE BELOW ARE MINIMUM DIMENSIONS AND WILL INCREASE DEPENDING ON THE NUMBER AND DIAMETER OF ADDITIONAL INLETS AND FINISHED WITH A 1:3 SAND/CEMENT FINISH TO SUIT FLOW OF INLETS AND OUTLET.

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

* SEWERS GREATER THAN 450mm Ø ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS. MANHOLE SIZE OF THESE CHAMBERS MAY BE REUIRED DUE TO MULTIPLE PIPES WITHIN

PRE-CAST CONCRETE MANHOLE WITH CAST IN-SITU BASE

FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED.

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Rev No.	Date	Revision Note	Drn by	Chkd by	Rev No.	Date	Revision Note
P01	17/09/21	ISSUED FOR INFROMATION	RM	АН			
P02	19/10/21	STAGE COMPLETE - SUITABLE FOR STAGE APPROVAL	RM	SMG			-∥ PLA
P03	25/04/22	FOR PLANNING	RM	МКо			_∥ NO
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							THIS DRA
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:e	Revision Note	Drn by Chkd by
	PLANNING DRAWING.	
	NOT FOR CONSTRUCTION.	
	ALL LEVELS GIVEN ARE	
	RELATIVE TO ORDENANCE DATUM.	
	THIS DRAWING HAS BEEN ISSUED FOR INFORMATION	
	PURPOSES ONLY AND MUST NOT BE USED	
	FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES	



GROUND TO SOFFIT DEPTH

TO CONTINUE UP TO COVER SLAB)

(NOTE: ON MANHOLES <1.5mØ, REDUCING SLAB NOT TO BE USED & PCC RINGS





PIPE JOINT WITH CHANNEL TO BE LOCATED

MANHOLE AND NOT MORE THAN 200mm.

FLEXIBLE JOINT

Flow

Max. 600

675mm MAX. TO FIRST LADDER RUNG

COVER SLAB

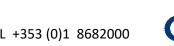
—1200mm SHAFT Ø

900mm MIN. CLEAR ACCESS BEHIND LADDER

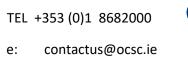
PCC REDUCING SLAB

ROCKER PIPE (SEE TABLE BELOW)

MINIMUM 100mm INSIDE FACE OF



Dublin | London | Belfast | Galway | Cork | Birmingham



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WASTE WATER STANDARD DETAILS SHEET 4 OF 5

Client: ZOLBURY LIMITED

Project: BLACKGLEN ROAD

Code | Originator | Zone | Level | Type | Role | Number | Status | Revision Z040 - OCSC - XX - XX - DR - C - 0533 S4 P03 Date: 06/09/21Scale: SHWN @ A1 Drn by: RM Chkd by: AH Aprvd by: AH