

NOTES :-

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.
- 3. THICKER MANHOLE BASES REQUIRED FOR SEWERS IN EXCESS OF 3m DEEP WHERE THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE.
- 4. PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING WITH BS 5911-PART 4 2002.
- 5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW.
- 6. MANHOLE ROOFS SHOULD 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: 2002.
- 7. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER.
- 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN
- 9. 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
- 10. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
- 11. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- 12. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
- 13. 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.

PRE-CAST MANHOLE NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- 2. PRE-CAST MANHOLE UNITS COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND IS 420
- 3. PRE-CAST CONCRETE BASE INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER REVIEW AND COMPLYING WITH IS EN 1917 & IS 420
- 4. IN SITUATIONS WHERE P.C.C. MANHOLE BASES HAVE REDUNDANT CHANNELS, THESE SHALL BE PLUGGED AND FILLED BY SCABBLING, AND INFILLED WITH GRADE C20/25 CONCRETE TO MATCH EXISTING BASE AND BENCH TO SUIT FLOW WITHIN THE MANHOLE BASE.
- 5. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW.
- 6. PRE-CAST CONCRETE ROOF SLABS TO BE USED SUBJECT TO IRISH WATER REVIEW AND COMPLIANCE WITH IS 420.
- 7. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER.
- 8. 200mm ALL AROUND X 100mm DEEP, C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPKETE WITH MILD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.
- 9. 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.
- 10. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206: 2013
- 11. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY REQUIREMENTS.
- 12. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
- 13. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSIONS OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROAD" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.
- 14. IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6M DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
- 15. PROPRIETARY WATERTIGHT PCC MANHOLE RING SYSTEMS WIT HA 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.
- 16. 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 OUTLETS.

ROCKER PIPE LENGTH

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

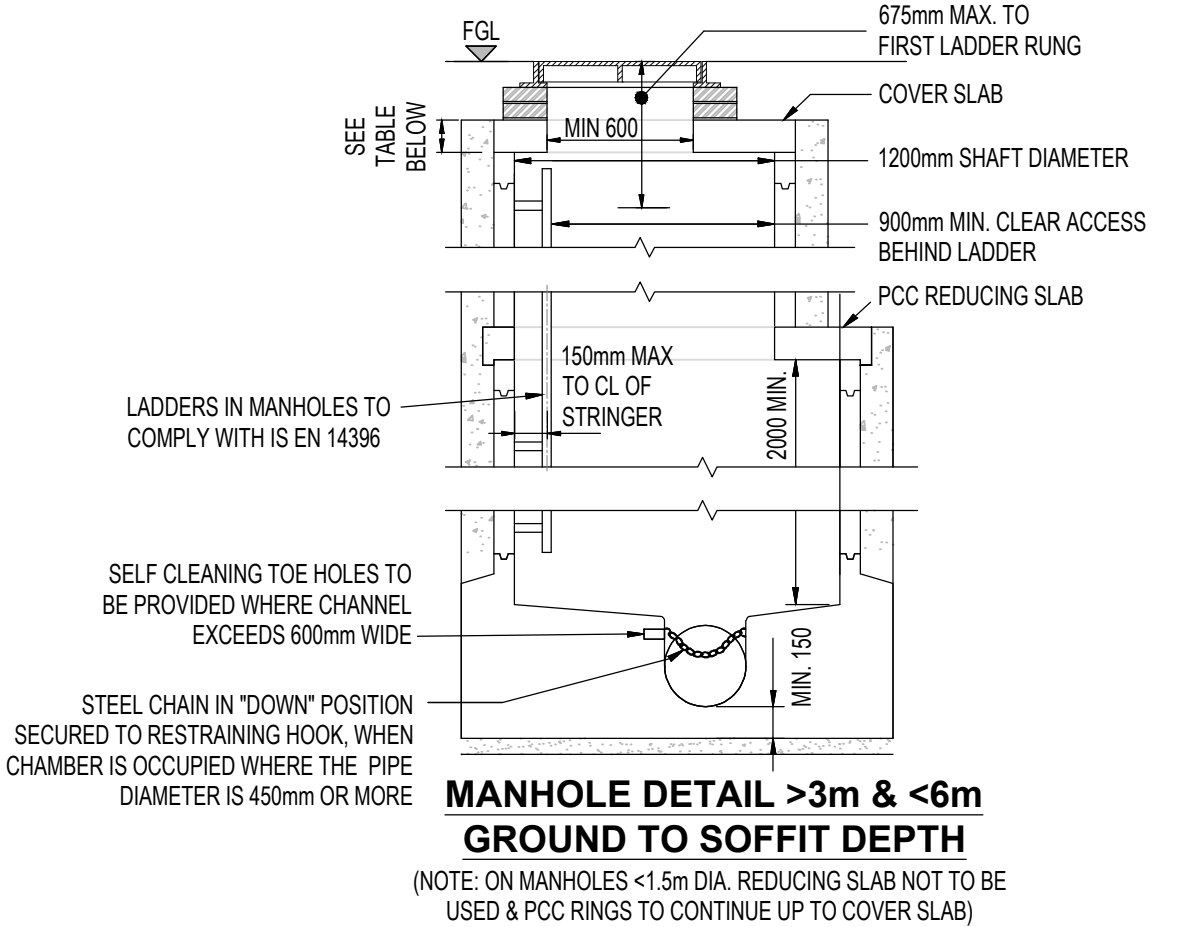
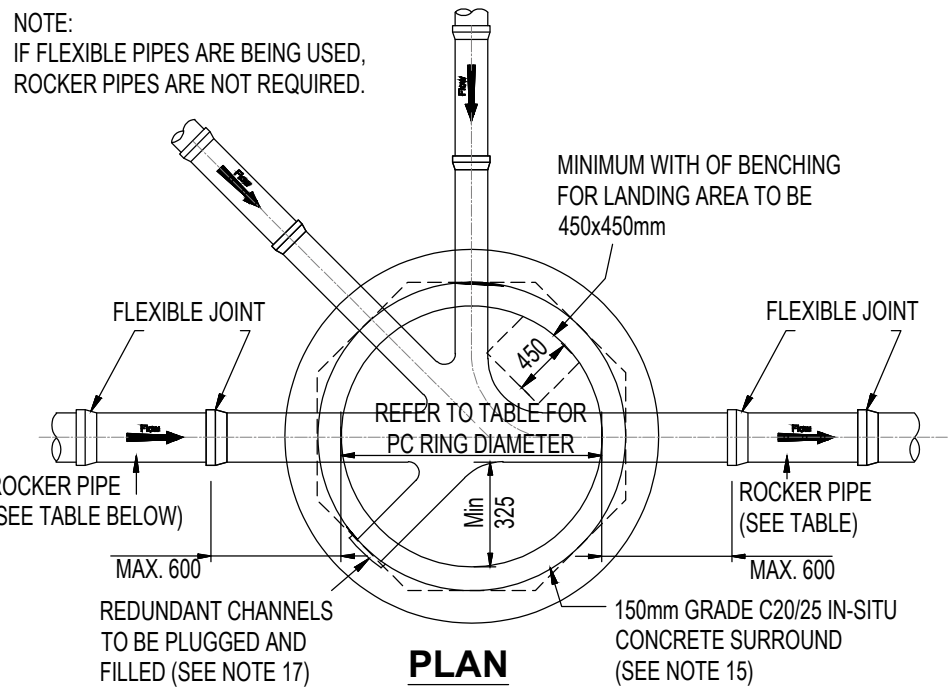
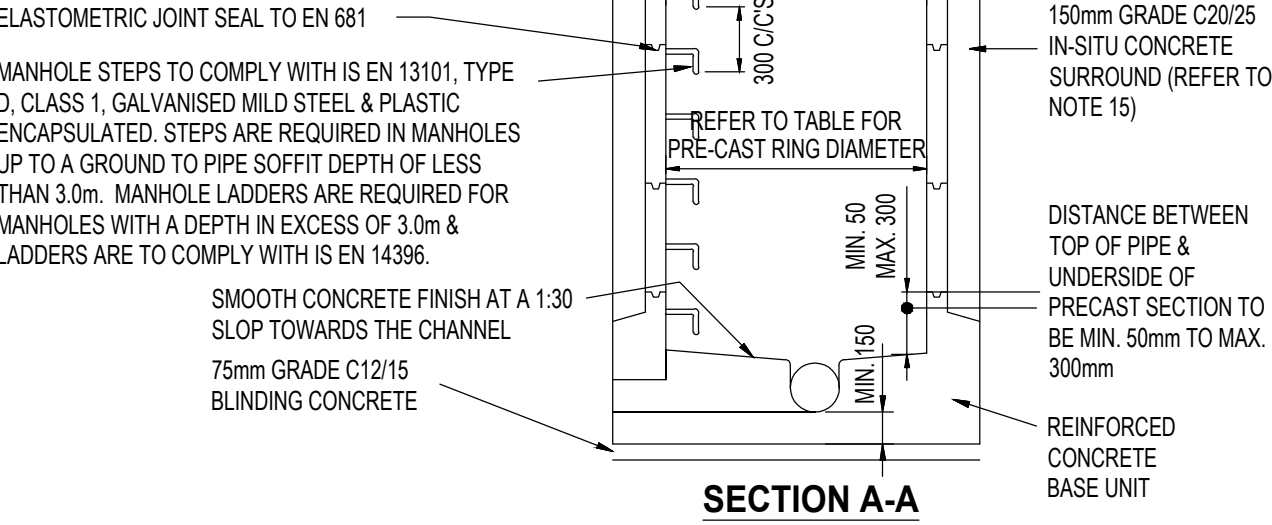
BLOCKWORK MANHOLE NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. SOLID BLOCKWORK TO BE OF HIGH STRENGTH (20N/mm²) TO IS EN 771.
- 3. MAXIMUM DEPTH OF BLOCKWORK MANHOLE IS 1.20m (THE USE OF BLOCK WORK IN DEEPER MANHOLES WILL BE CONSIDERED BUT SUCH USE WILL REQUIRE DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER REVIEW).
- 4. WALLS TO BE FLUSH POINTED AND NOT PLASTERED INTERNALLY. INTERNAL LINING OF ENGINEERING BRICK TO IS EN 771-1 TO A HEIGHT OF 1m ABOVE BENCHING. ENGINEERING BRICK TO BE BONDED TO BLOCKWORK USING ENGLISH GARDEN WALL BOND.
- 5. 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: 2002.
- 6. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW FROM IRISH WATER.
- 7. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.
- 8. 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.
- 9. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 : 2013.
- 10. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- 11. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
- 12. 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.

NOTE: PRECAST CONCRETE MANHOLES SHALL ONLY BE USED WHERE THE WATER TABLE IS LOW. THEY SHALL NOT BE USED WHERE THERE IS A PERCHED WATER TABLE. WHERE THE SEWER IS LOCATED NEXT TO A RIVER, LAKE OR OTHER WATER BODY AND WITHIN AREAS THAT ARE IDENTIFIED BY THE OFFICE OF PUBLIC WORKS CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT (CFRAM) WITH A FLOOD RISK OF 1 IN 10 YEARS.

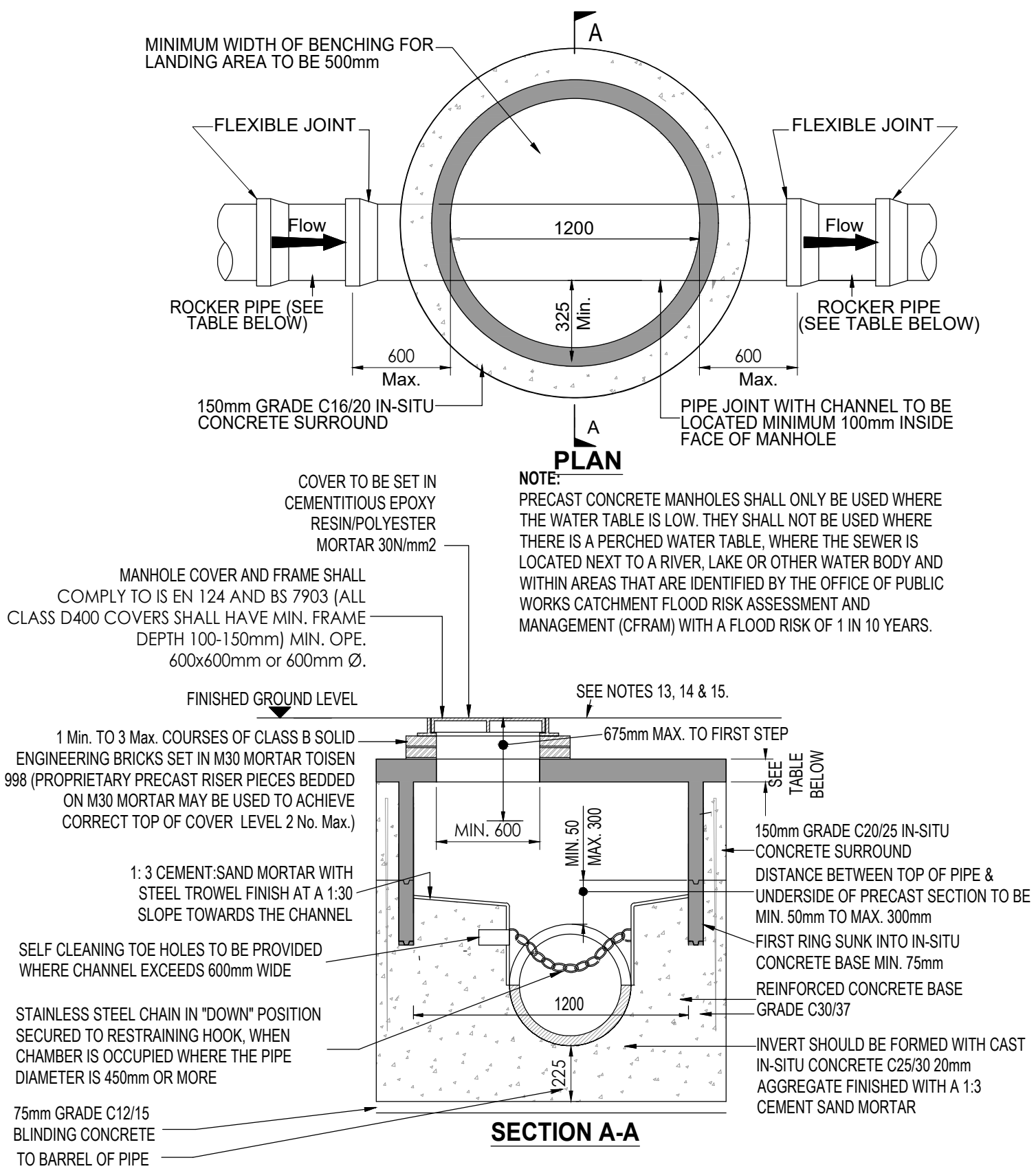
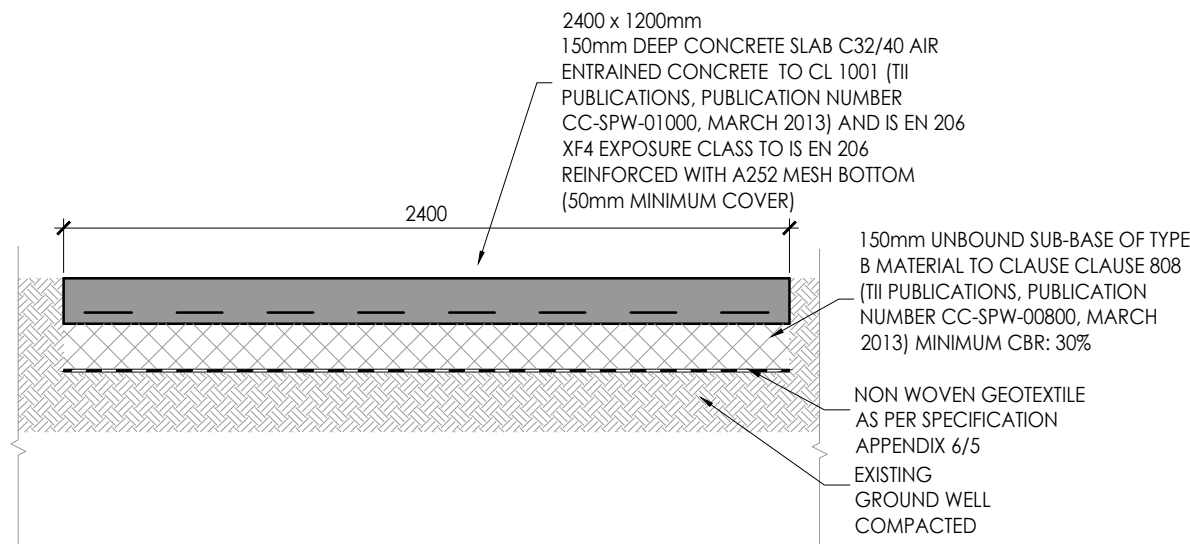
1 Min. TO 3 Max. COURSES OF CLASS B SOLID ENGINEERING BRICKS SET IN M30 MORTAR TOISEN 998 (PROPRIETARY PRECAST RISER PIECES BEDDED ON M30 MORTAR MAY BE USED TO ACHIEVE CORRECT TOP OF COVER LEVEL 2 No. Max.)

PRECAST CONCRETE MANHOLE RINGS TO IS 420 IN CONJUNCTION WITH IS EN 1917 : 2004



IRISH WATER DETAIL STD-WW-10A
PRECAST CONCRETE MANHOLE
WITH PRECAST BASE

SCALE: 1:25



PRECAST MANHOLE
(<450mm DIA. & 1.2m DEEP MAX.)

SCALE: 1:25



Rialtas na hÉireann
Government of Ireland



Arna chomhchistiú ag
an Aontas Eorpach
Co-funded by the
European Union



Tionól Réigiúnach an
Oirthir agus Lár Tíre
Eastern and Midland
Regional Assembly



Comhairle Contae Thiobraid Árann
Tipperary County Council

The Masterplan development of a 10 acre site and Part 8 Planning for an industrial core building at Lisheen Co. Tipperary, is co-funded by the Government of Ireland and the European Union through the EU Just Transition Fund.

STANDARD INSTRUCTIONS

- 1. THE MAIN CONTRACTOR, SUB-CONTRACTOR OR SUPPLIER SHALL: VERIFY ALL DIMENSIONS ON SITE AND IMMEDIATELY REPORT TO THE ARCHITECT ANY DISCREPANCIES ON THE DRAWINGS.
WORK TO FIGURED DIMENSIONS ONLY (EXCEPT WHERE FULL SIZE DETAILS ARE PROVIDED).
NOT VARY ANY WORK SHOWN ON THE DRAWINGS WITHOUT OBTAINING PRIOR APPROVAL FROM THE DESIGNER.
BE RESPONSIBLE FOR REQUESTING FROM THE DESIGNER ANY ADDITIONAL INFORMATION REQUIRED.
SUPPLY TO THE DESIGNER ALL SHOP DRAWINGS, ILLUSTRATIONS, SPECIFICATIONS, ETC. OF ALL SPECIALIST WORK TO BE INCORPORATED IN THE MAIN CONTRACT WORKS.

- IMMEDIATELY INFORM THE DESIGNER IF ANY WORK SHOWN ON THIS DRAWING IS NOT IN ACCORDANCE WITH THE RELEVANT CODES OF PRACTICE RECOGNISED GOOD PRACTICE THROUGHOUT THE INDUSTRY AND DOES NOT COMPLY WITH THE RELEVANT LOCAL AUTHORITY BYE-LAWS OR BUILDING REGULATIONS.
IMMEDIATELY ADVISE THE DESIGNER / QUANTITY SURVEYOR OF THE EFFECT UPON PROGRAMME AND COST OF ANY ALTERATIONS TO THE PROPOSED WORKS SHOWN ON THIS DRAWING.
- 2. THIS DRAWING SUPERSEDES ALL PREVIOUS ISSUES OF THE SAME DRAWING NUMBER WITH EARLIER REVISIONS.
- 3. THIS DRAWING IS COPYRIGHT TO PLACE + URBANISM LTD. AND THE CONTENTS MUST NOT BE DISCLOSED TO ANYONE WITHOUT PRIOR AGREEMENT.

GENERAL NOTES

ALL DIMENSIONS TO BE CHECKED ON SITE.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS AND DRAWINGS.
IN THE EVENT OF ANY DISCREPANCIES BETWEEN DRAWINGS THE CONTRACTOR IS TO INFORM THE DESIGNER IMMEDIATELY.
DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
ALL WORK TO COMPLY WITH CURRENT BUILDING REGS & B.S.

REVISION REGISTER

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
-	--/------	-	-	-	-
-	--/------	-	-	-	-
T2	20/11/25	TENDER ISSUE	MT	CQ	MJP
T1	--/------	TENDER ISSUE	MT	CQ	MJP



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Clonmel, Co. Tipperary

SCALE:
AS NOTED

STATUS:
TENDER

CLIENT:
TIPPERARY COUNTY COUNCIL

PROJECT:
IBF
LISHEEN
Co. TIPPERARY

DRAWING TITLE:
PROPOSED WASTEWATER
DETAILS SHEET 1 OF 2

PROJECT	CLIENT	DATE	REV	BY	CHECKED	APPROVED
016	P+U	00	CE	P	0300	T2