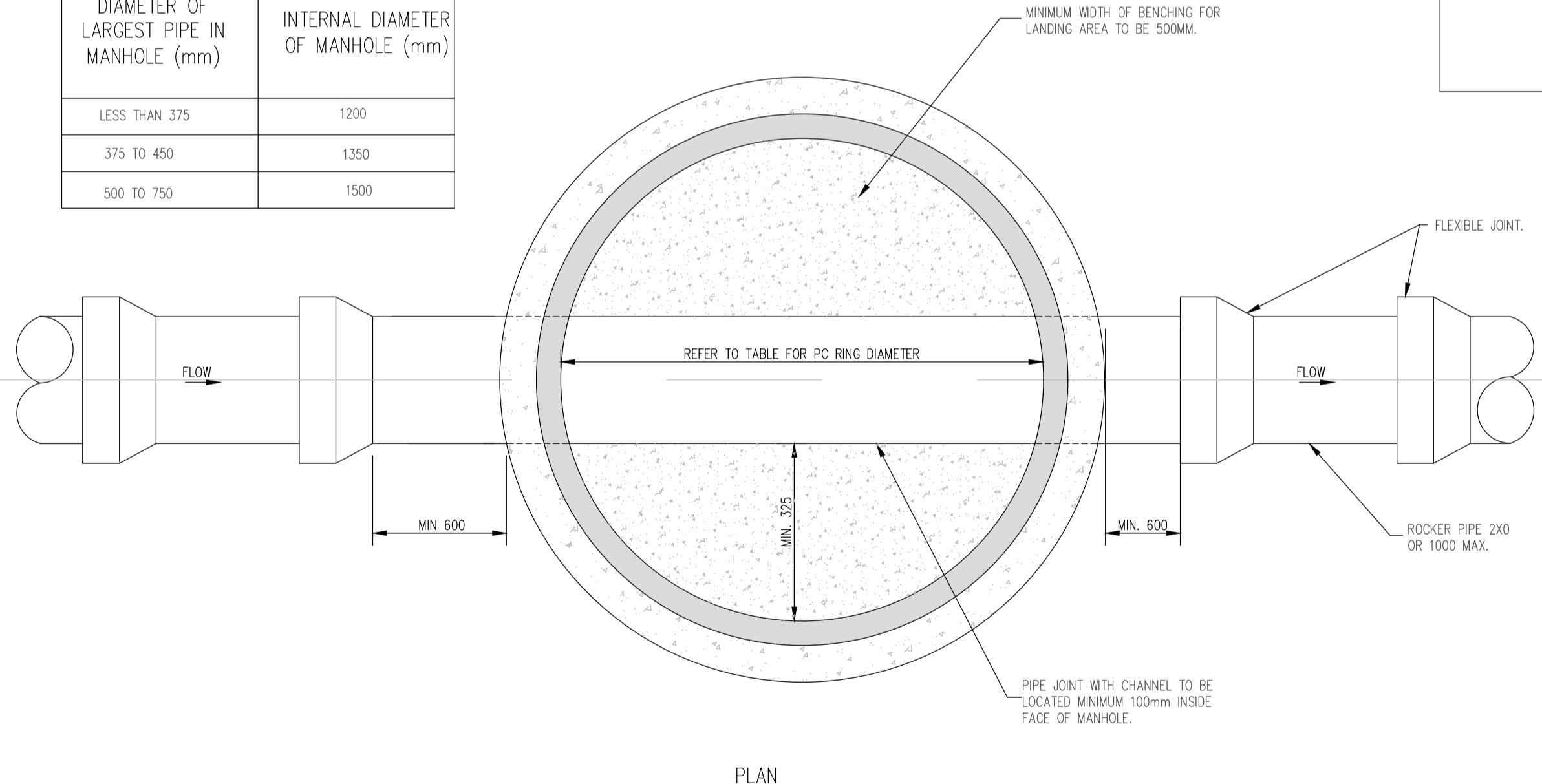
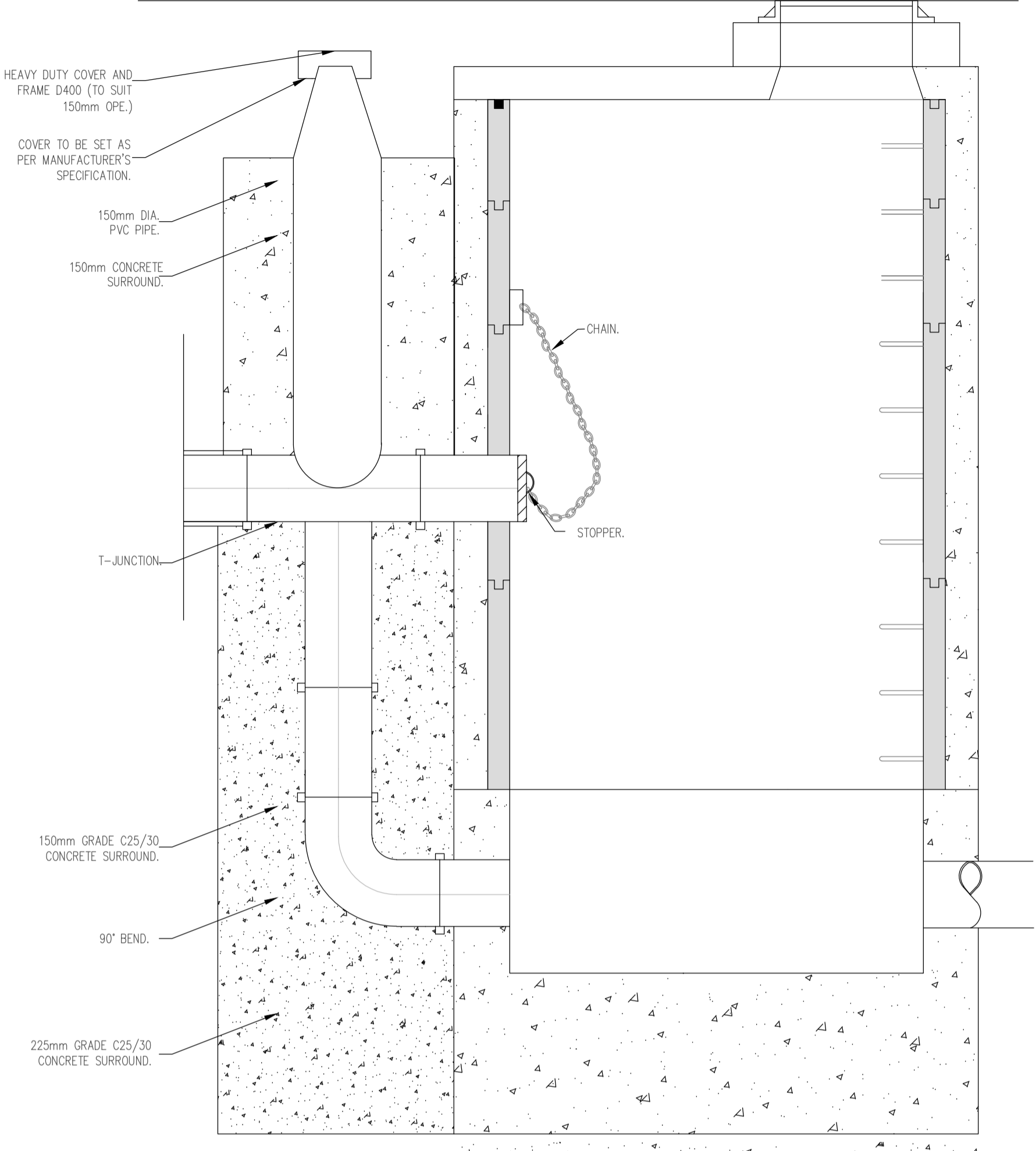


MINIMUM MANHOLE DIAMETERS "D"	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500

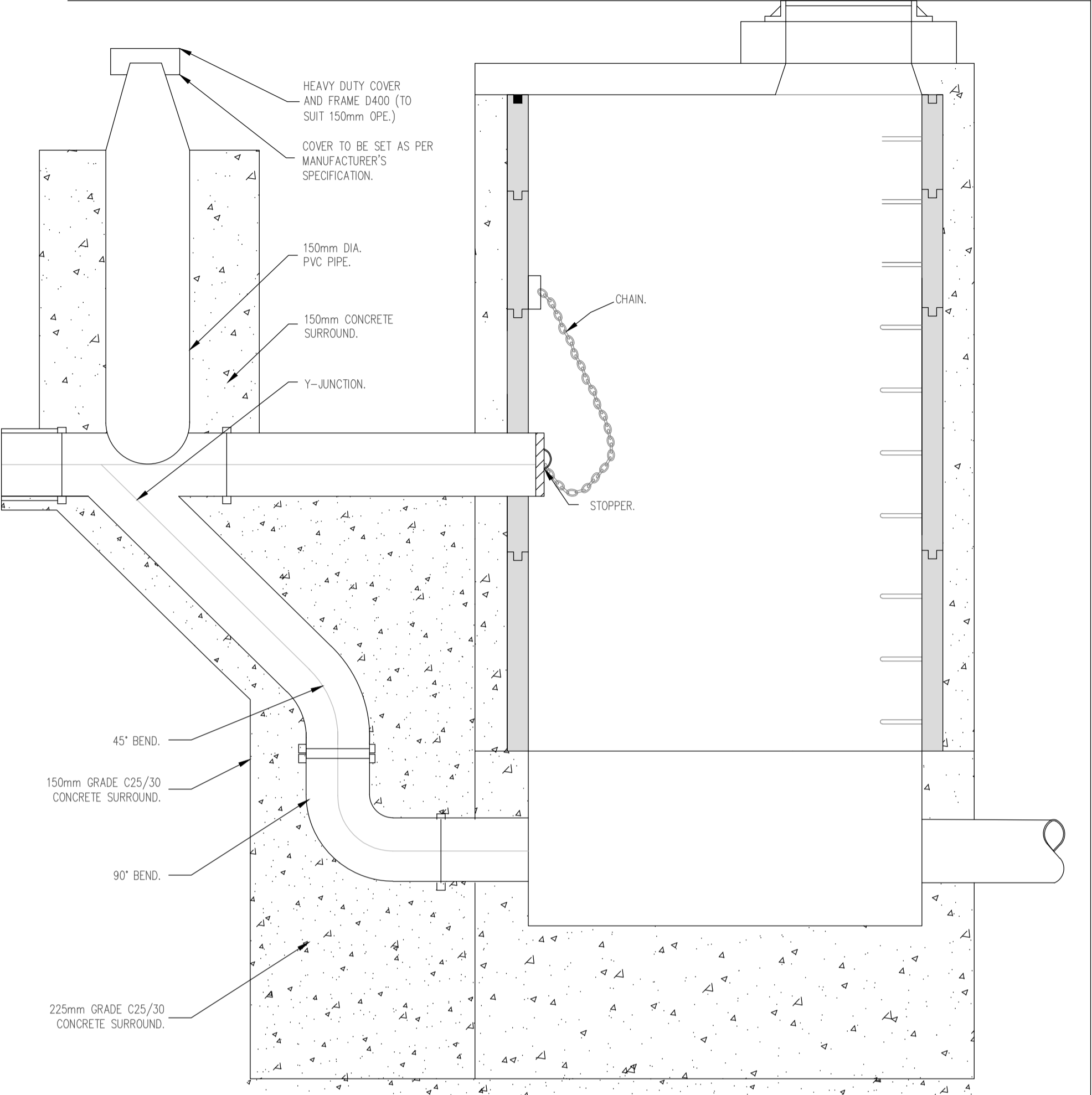
SECTION A-A



MANHOLE TYPE 3
PRECAST CONCRETE FOUL MANHOLE
(STD-WW-10)
SCALE 1:20



MANHOLE TYPE 4
150mm - 450mm (NCL) DROP GREATER THAN 900mm AND LESS THAN 1700mm.
500mm - 900mm (NCL) DROP GREATER THAN 1300mm AND LESS THAN 2300mm.



MANHOLE TYPE 5
150mm - 450mm (NCL) DROP GREATER THAN 1700mm.
500mm - 900mm (NCL) DROP GREATER THAN 2300mm.

FOUL BACKDROP MANHOLES
(STD-WW-12)
SCALE 1:20

- NOTES:
- PRECAST CONCRETE MANHOLE (<450mm DIA)
STD-WW-10
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
 - PRECAST MANHOLES UNITS, COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.
 - THICKER MANHOLE BASE REQUIRED FOR SEWERS IN EXCESS OF 3m DEEP WHERE THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE.
 - APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER APPROVAL 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 APPROVAL.
 - MANHOLE ROOFS SHOULD CONSIST OF RE-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 APPROVAL AND COMPLIANCE WITH BS 5911 PART 4; 2002.
 - COVER AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM IRISH WATER.
 - 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
 - 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 APPROVAL FROM IRISH WATER.
 - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206; 2013.
 - ANY SPECIAL ROAD REINSTATEMENT AROUND COVER AND FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
 - NEW ROAD CONSTRUCTION AND SURFACE FINISH TO BE TO ROAD AUTHORITY'S REQUIREMENTS.
 - EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.
 - IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
 - PROPRIETARY WATERTIGHT PCC MANHOLE RING SYSTEMS WITH A WALL THICKNESS > 25mm, & A WATER-TIGHT JOINT SEALING SYSTEM, MAY BE USED WITHOUT CONCRETE SURROUND, SUBJECT TO THE GROUNDWATER LEVEL AT THE MANHOLE BEING LOW AND SUBJECT TO REVIEW BY IRISH WATER.

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
 - RODDING EYE CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
 - 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 APPROVAL FROM IRISH WATER.
 - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
 - MANHOLE DETAILS TO BE IN ACCORDANCE WITH STD-WW-09, 10 AND 11.

PLANNING DRAWING.
NOT FOR CONSTRUCTION.
ALL LEVELS GIVEN ARE
RELATIVE TO ORDNANCE DATUM.
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION
PURPOSES ONLY AND MUST NOT BE USED
FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

- NOTES
- For setting out refer to Architect's drawings.
 - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
 - DO NOT SCALE THIS DRAWING. Use figured dimensions only.
 - No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission as copyright holder except as agreed for use on the project for which the document was originally issued.
 - Ordnance Survey Ireland Licence Number EN 0074021

Rev. No.	Date	REVISION NOTE	Chd. By	Chk. By

Architect	Darmody Architecture	
Project	Development at Mill Road	
Title	DRAINAGE DETAILS SHEET 1 OF 3	
Dwg. No.	MILL-CSC-ZZ-XX-DR-C-0005	
Date	Nov 2020	
Dwn by	AB	
Chgd by	GL	
Aprvd by	NB	
Scale	AS SHOWN @ A1	
Revision		

CS Consulting Group
DUBLIN | LONDON | LIMERICK

Head Office
19-22 Dame Street, Dublin 2.
T: +353 (0)1 5480863
e: info@csconsulting.ie
w: www.csconsulting.ie

Quality I.S. EN ISO 9001:2008
Environment I.S. EN ISO 14001:2004
Energy I.S. EN ISO 50001:2011
Health & Safety OHSAS 18001:2007