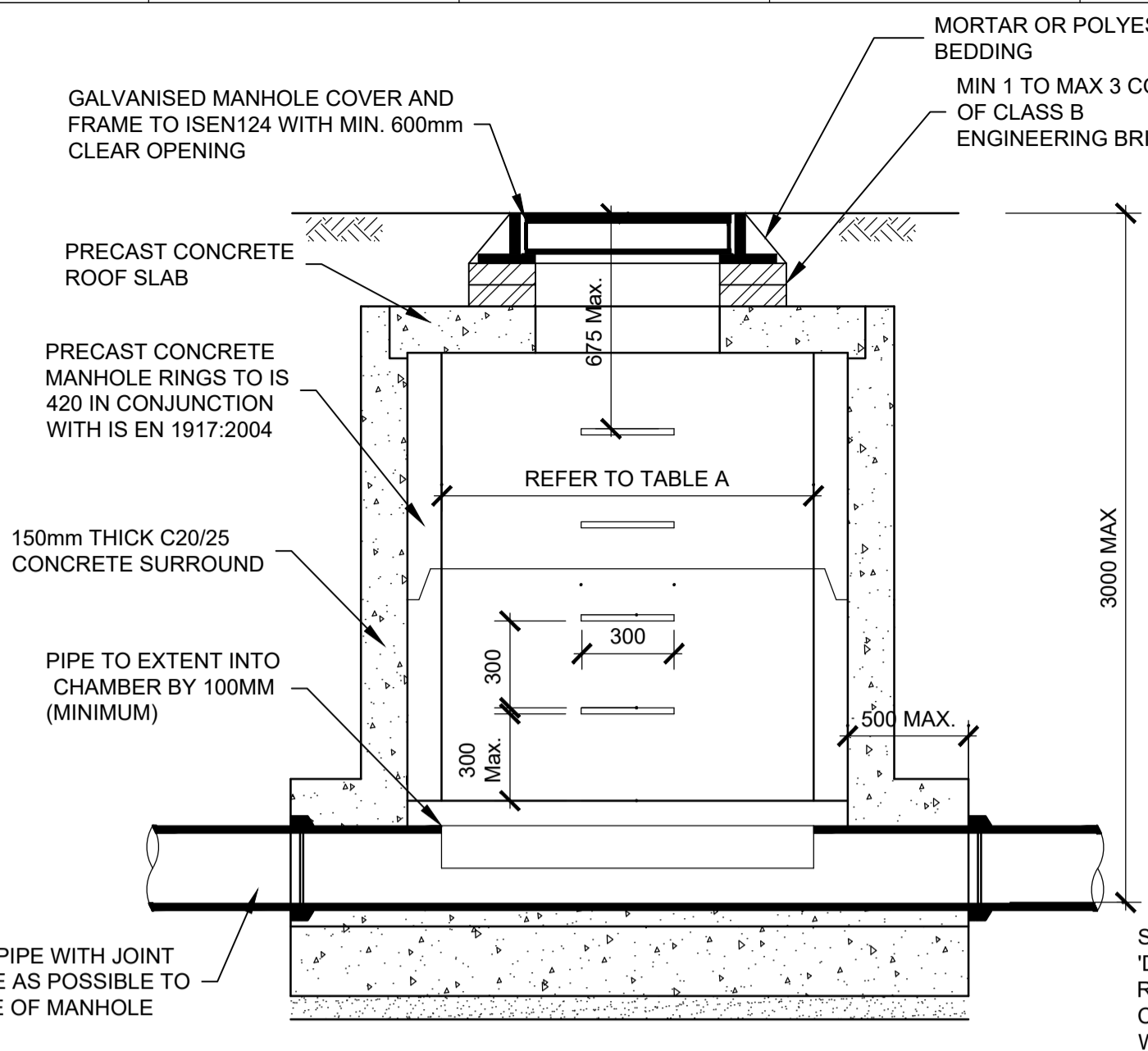


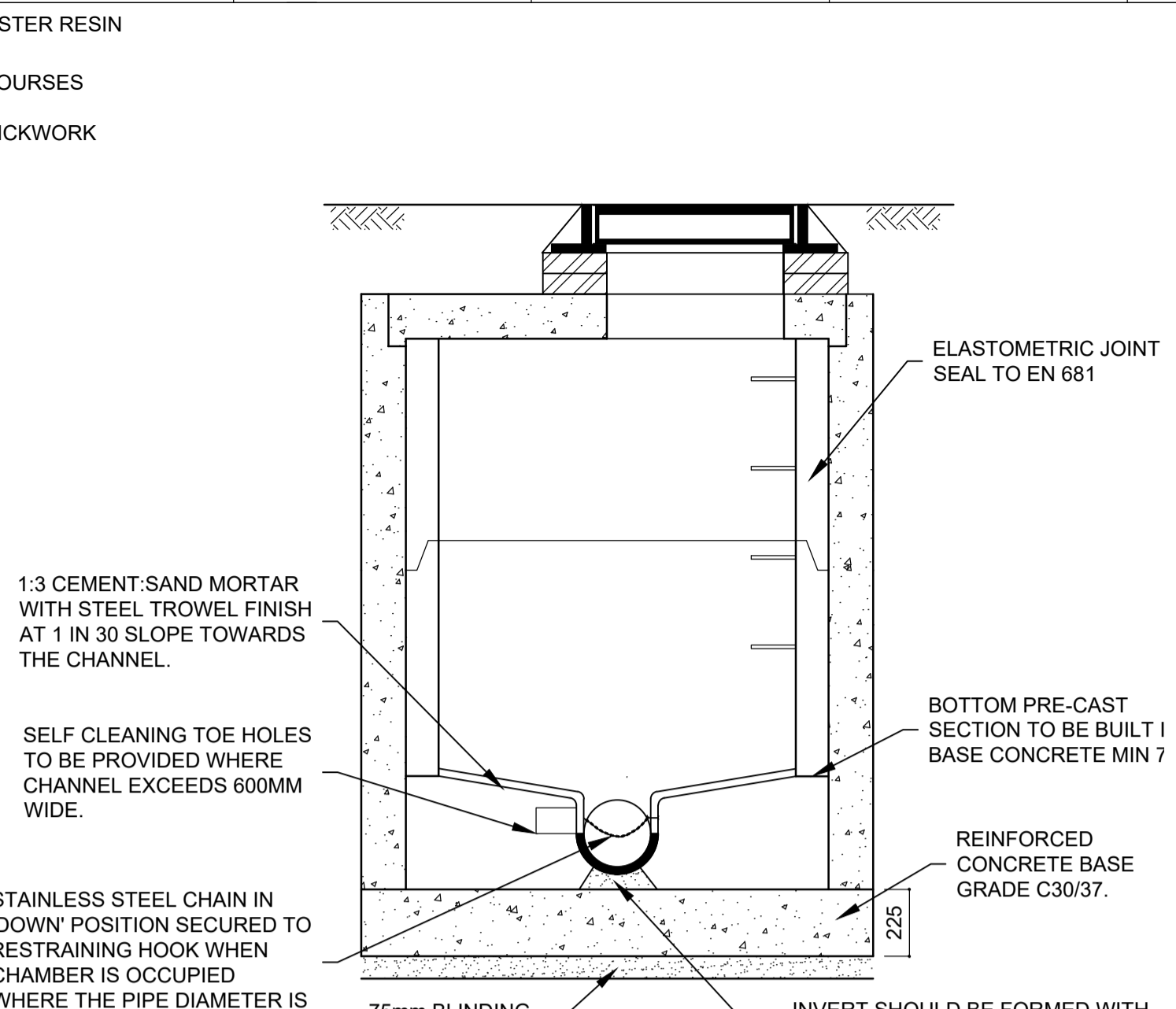
Sectional Plan



Section A-A

Shallow Precast Concrete Manhole

SCALE 1:20
(DEPTHS UP TO 3.0m)



Section B-B

NOTES :

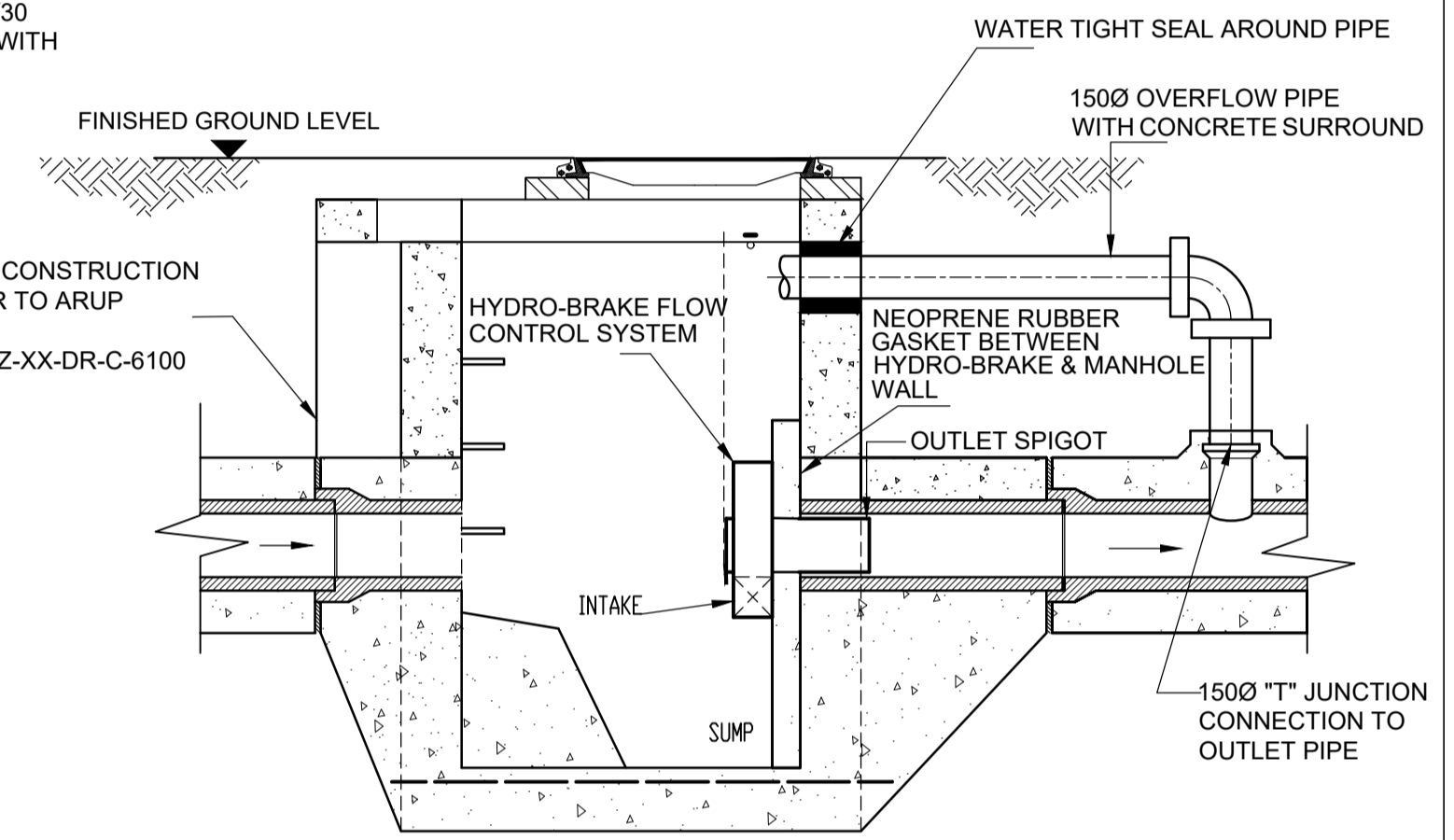
MANHOLE CONSTRUCTION
CONCRETE MANHOLES SHALL BE CONSTRUCTED OF PRECAST UNITS COMPLYING WITH E.N.420 AND SHALL BE OF THE DIMENSIONS AS SHOWN ON THE DRAWING.

COVERS
MANHOLE COVERS AND FRAMES TO COMPLY WITH THE REQUIREMENTS OF EN 124:1994. COVERS IN ROADWAYS TO BE AN APPROVED MINIMUM CLASS D400 WITH 600mm CLEAR OPENING. COVERS SHALL BE STEEL OR IRON FABRICATED GALVANISED WITH 100mm DEEP FRAME, NON ROCK BY MEANS OF V SHAPED SEATING WITH WEDGING. COVERS TO BE THIRD PARTY CERTIFIED e.g. BSI KMI OR SIMILAR UNLESS NOTED OTHERWISE.

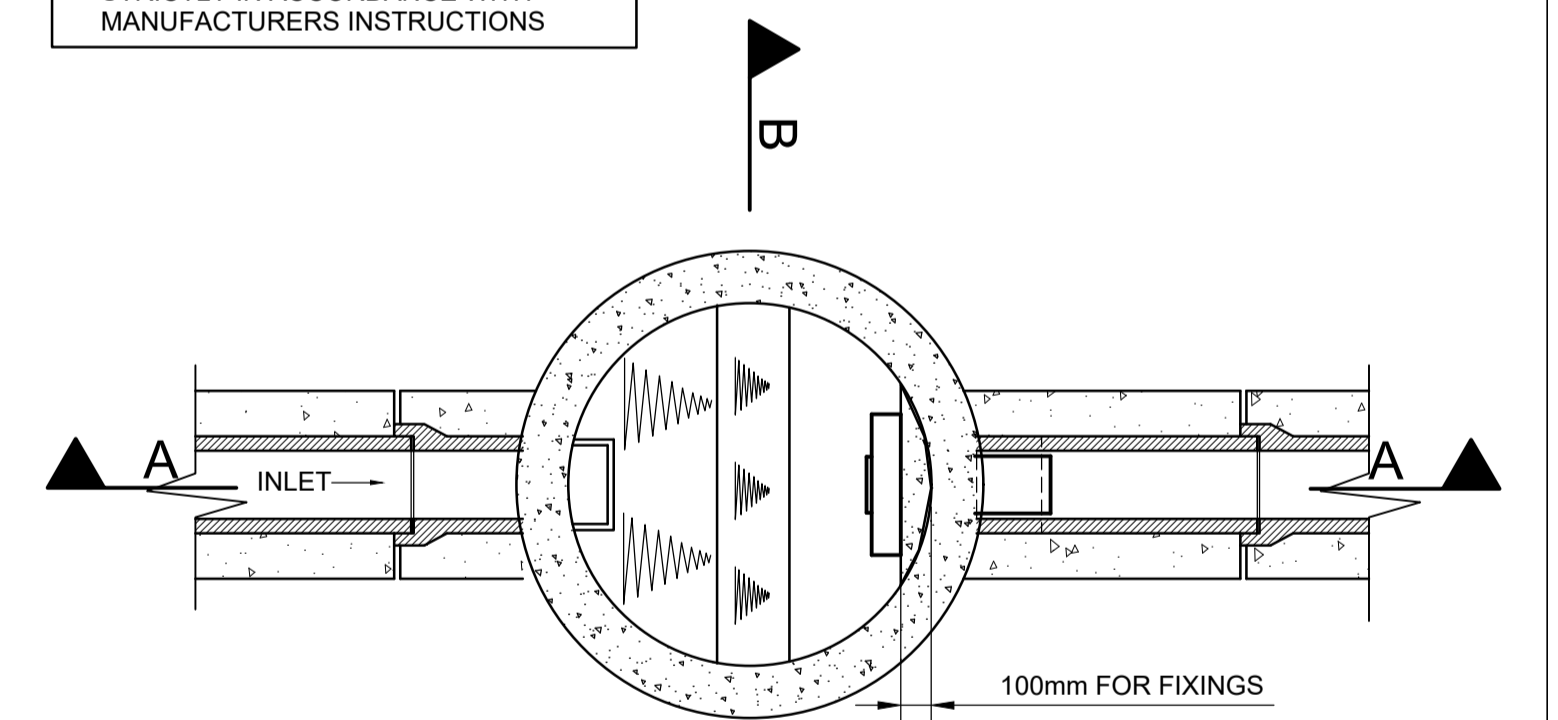
ACCESS STEPS/LADDERS
MANHOLE STEPS TO COMPLY WITH IS EN 13101, TYPE D, CLASS 1, GALVANISED MILD STEEL & PLASTIC ENCAPSULATED. STEPS ARE REQUIRED IN MANHOLES UP TO A GROUND TO PIPE SOFIT DEPTH OF LESS THAN 3.0M. MANHOLE LADDERS ARE REQUIRED FOR MANHOLES WITH A DEPTH IN EXCESS OF 3.0M & LADDERS ARE TO COMPLY WITH IS EN 14396.

BENCHING
BENCHING IS TO BE FORMED IN C25/30 CONCRETE AND SHOULD RISE VERTICALLY FROM THE TOP EDGE OF THE CHANNEL TO A HEIGHT NOT LESS THAN THAT OF THE SOFFIT OF THE OUTLET AND SLOPE UPWARDS TO MEET THE WALL OF THE MANHOLE AT A GRADIENT OF 1:6 (MIN RISE 25mm). IT SHOULD BE FLOATED WITH A STEEL FLOAT TO A SMOOTH HARD SURFACE WITH A 25mm THICK COAT OF 1:1 CEMENT MORTAR LAID WHILE THE BENCHING CONCRETE IS STILL GREEN.

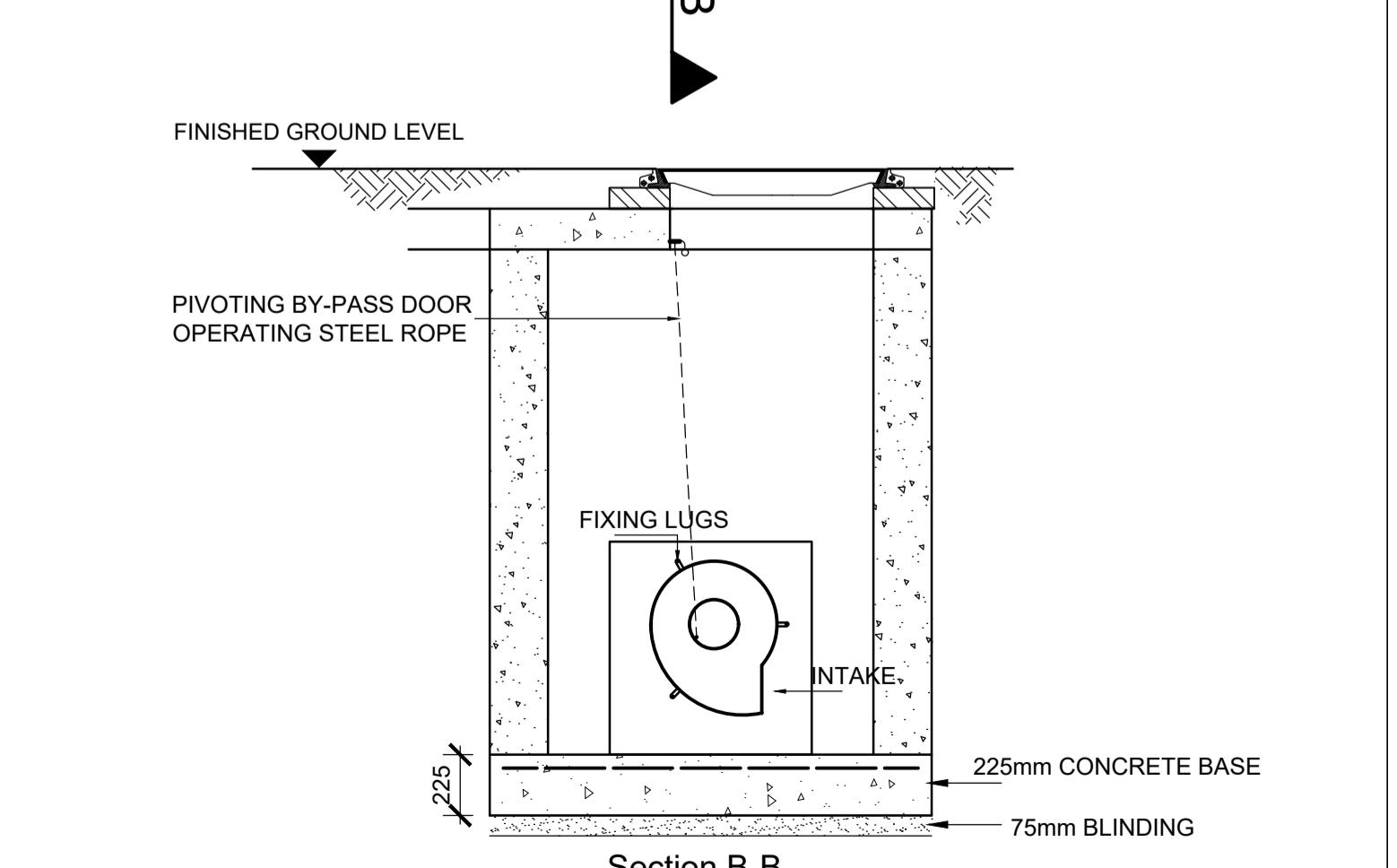
- Notes:
- This Drawing shall be Read in Conjunction with all Other Relevant Specifications & Drawings.
 - All Dimensions in Millimeters (mm) unless noted otherwise.
 - Refer to 252666-ARUP-ZZ-XX-DR-C-1000 for the Proposed Surface Water Drainage Layout.
 - Refer to 252666-ARUP-ZZ-XX-DR-C-2000 for the Proposed Foul Water Drainage Layout.
 - All Foul Water Infrastructure to be Designed and Constructed in Accordance with the Irish Water Code of Practice and Standard Details.
 - All Watermain Infrastructure to be Designed and Constructed in Accordance with the Irish Water Code of Practice and Standard Details.
 - Refer to 252666-ARUP-ZZ-XX-DR-C-3000 for the Proposed Watermain Layout



Section A-A



Sectional Plan



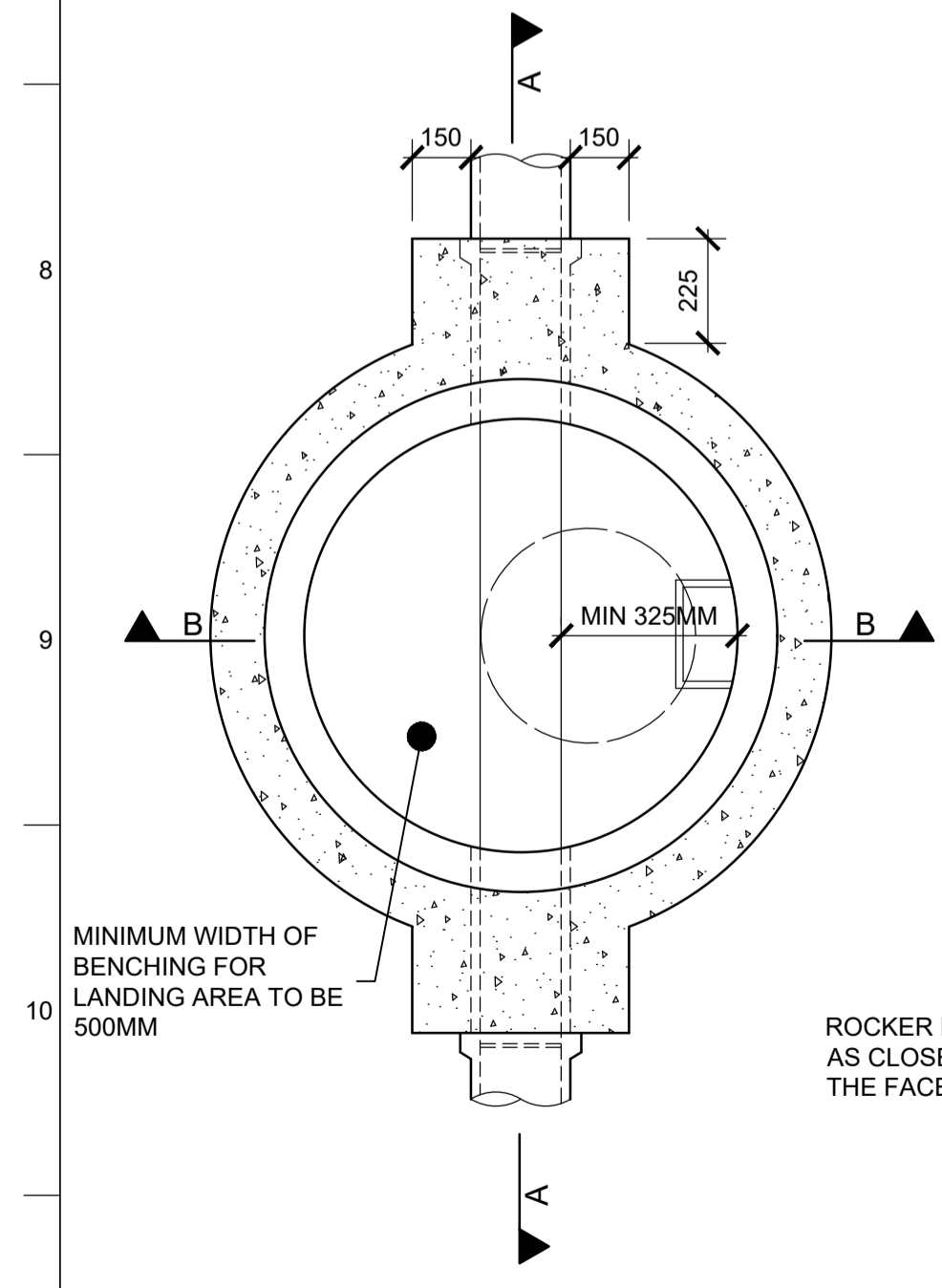
Section B-B

Hydro-Brake Flow Control Chamber

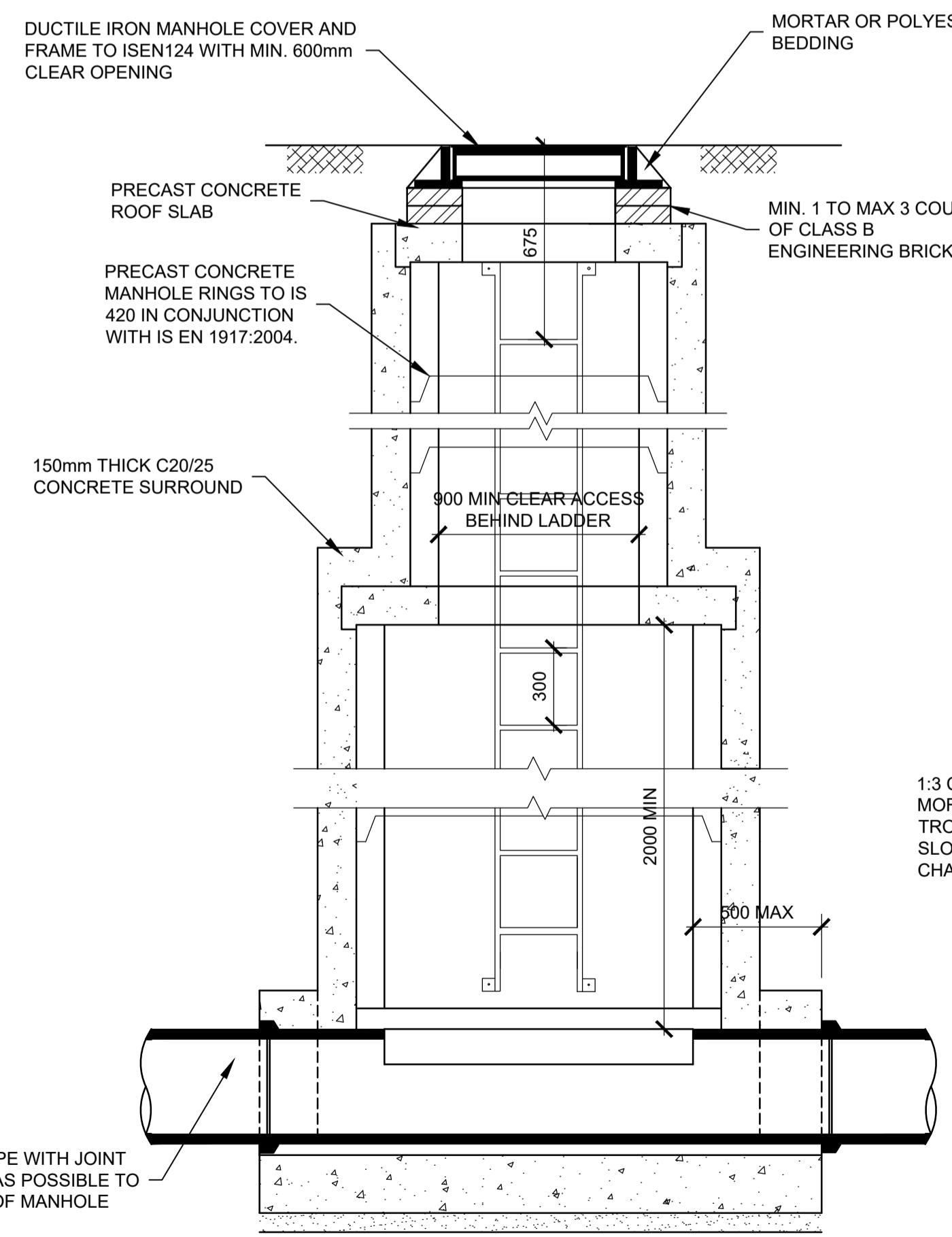
Scale 1:25

TABLE A - MANHOLE SIZES

PIPE DIA. mm	MANHOLE SIZE DIA.
100 - 375	1.2m Ø
450 - 750	1.5m Ø
900	1.8m Ø



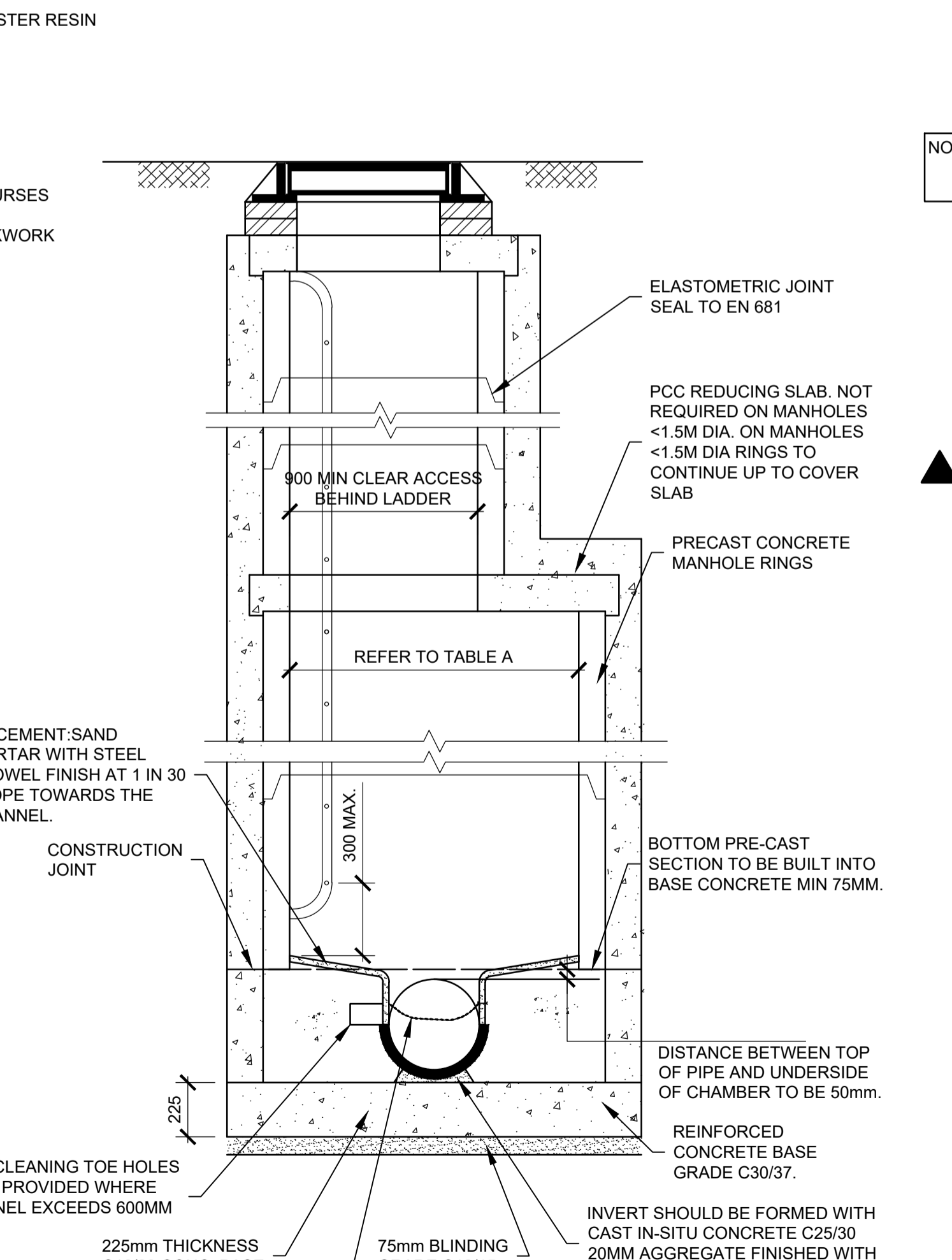
Sectional Plan



Section A-A

Deep Precast Concrete Manhole

Scale 1:20
(Depths Over 3.0m & up to 5.5m)



Section B-B

P03	16/02/22	RM	RM	JMaC
Issued for Planning				
P02	20/12/21	WC	RM	JMaC
Issued for Information				
P01	18/11/21	ROD	RM	JMaC
Issued for Information				
Rev	Date	By	Chkd	Appd

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Project Title
Creamfields Residential Development

Drawing Title
Proposed Drainage & Water Details
Sheet 1 of 2

Scale at A1	As Shown
Role	Civil Infrastructure
Suitability	S2 - Suitable for Information
Arup Job No	252666-00
Rev	P03
Name	252666-ARUP-ZZ-XX-DR-C-6000